TC-TX333

SERVICE MANUAL

US Model
AEP Model
UK Model
E Model
Tourist Model

- TC-TX333 is the stereo cassette deck that can be used only with section DHC-MD333.

SPECIFICATIONS

Recording system	4-track 2-channel stereo
Frequency response	(DOLBY NR OFF) 50 – 14,000 Hz (± 3 dB), using Sony TYPE I cassettes 50 – 15,000 Hz (± 3 dB), using Sony TYPE II cassettes
Input	TAPE IN (phono jacks): impedance 47 kilohms
Output	TAPE OUT (phono jacks): voltage 550 mV impedance 47 kilohms

General

Power requirements	
US model:	120 V AC, 60 Hz
AEP, UK model:	220 – 230 V AC, 50 / 60 Hz
E, Tourist model:	110 – 120 V or 220 – 240 V AC, 50 / 60 Hz Adjustable with the voltage selector
Power consumption	12 W
Dimensions	Approx. 215 × 60 × 195 mm (w / h / d) incl. projecting parts and controls
Mass	Approx. 2.5 kg
Supplied accessories:	Audio connecting cords (2)

Design and specifications are subject to change without notice.

Model Name Using Similar Mechanism	TC-TX313/TX515
Tape Transport Mechanism Type	————————

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
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Notes on Chip Component Replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

STEREO CASSETTE DECK

MICROFILM

SONY®

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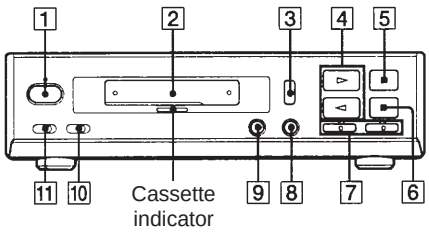
SECTION 1
GENERAL

Parts and Controls



1 I / ⏻ (POWER) switch
Only the power to this set is turn on.
2 Cassette slot
With a cassette inserted, the cassette indicator is illuminated red when the power is turned on.
3 ⏏ (eject) button
4 ◁ (lower side play)/
▷ (upper side play) button
Even without cassette, the power to this set and the DHC-MD333 will be turned on when one of these buttons is pressed.
5 ∏ (pause) button
6 ■ (stop) button
7 ◀◀/▶▶ (fast forward, fast backward/AMS) button
8 ● REC (recording) button
9 CD SYNC (CD synchro) button
This button allows CD synchro recording to be executed as this set is interlocked with the DHC-MD333.
10 DIRECTION switch
11 DOLBY NR (Dolby Noise Reduction) switch

SECTION 2
TEST MODE

2-1. CHECKING THE ITEMS OF TEST MODE

The set allows you to check the items of the test mode although this may not be directly related with the adjustment.

[1] Setting/Releasing the Test Mode:

1) Setting
With I / ⏻ (POWER) OFF, short between test pin ① and pin ② of CN09 on the LOW-VOLTAGE board. (See page 15.)
Then, turn I / ⏻ (POWER) ON to enter the test mode.

2) Releasing
Open between pin ① and pin ② of CN09.

[2] Items of Test Mode

1) Memory Stop

1-1) In side A record mode, press the REW (◀◀) button.
The tape is rewind to the start point of recording and stopped.

1-2) In side B record mode, press the FF (▶▶) button.
The tape is rewind to the start point of recording and stopped.

2) Memory Play

2-1) In side A record mode, press the FWD Auto Play (▶+◀◀) buttons simultaneously. The tape is rewind to the start point of recording and FWD played.

2-2) In side B record mode, press the REV Auto Play (◀+▶▶) buttons simultaneously. The tape is rewind to the start point of recording and REV played.

3) All LED Flickering
When no tape is inserted, all LED indicators are flickering.

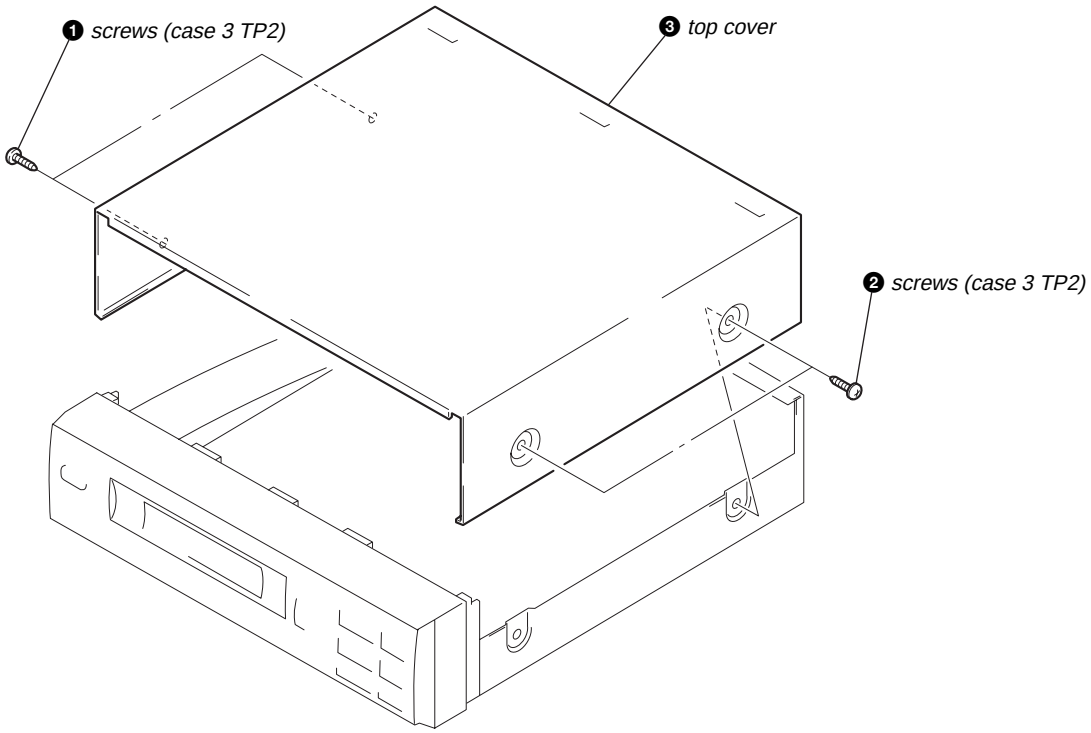
4) Aging Operation
When tape with record erase preventing claw is inserted for both sides A and B, enter the aging operation start command by pressing ■ and CD SYNC simultaneously. The system will change the direction to one side and perform the following operations:

① Rewind in REW mode until side A of tape is stopped.
② Playback tape in FWD mode for 1 minute.
③ Pause mode.
④ Record tape for 3 minutes.
⑤ Forward tape in FF mode to the end of side A of tape.
⑥ Shut off and switch to side B.
⑦ Playback tape in REV mode for 1 minute.
⑧ Pause mode.
⑨ Record tape for 3 minutes.
⑩ Forward tape in FF mode to the end of side B of tape.
⑪ Shut off and switch to side A.
⑫ Repeat the procedure from ② to ⑪.
⑬ Pressing the STOP (■) button will release the set from these operations.

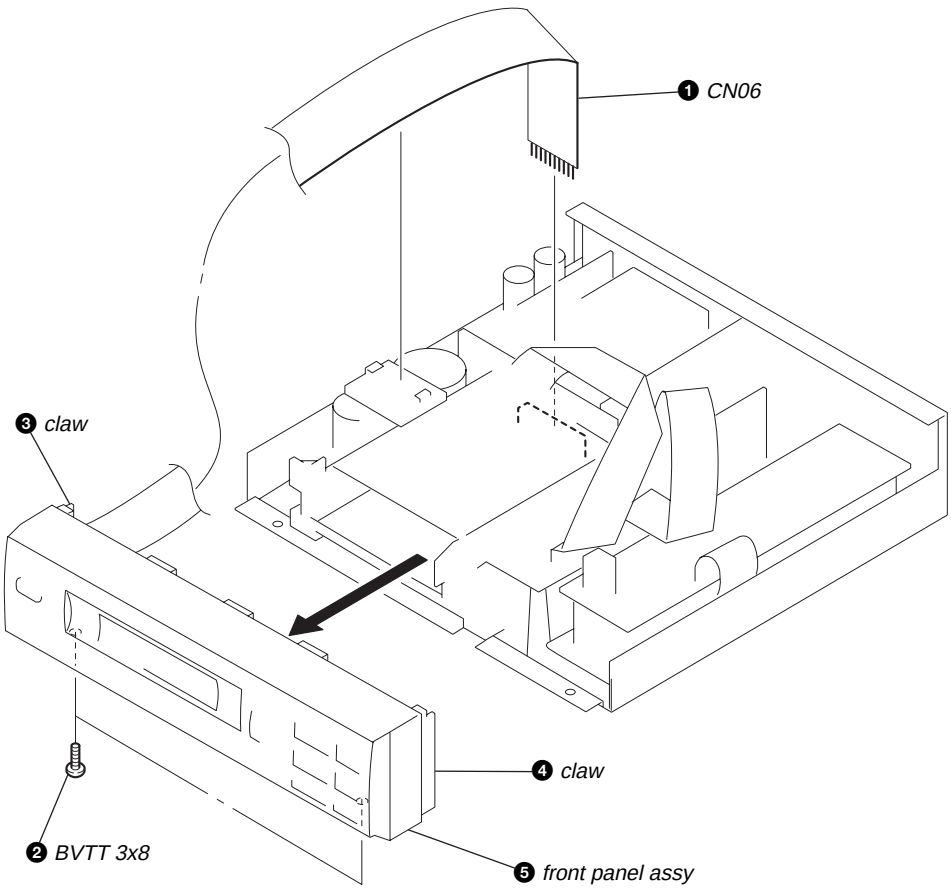
SECTION 3
DISASSEMBLY

Note : Follow the disassembly procedure in the numerical order given.

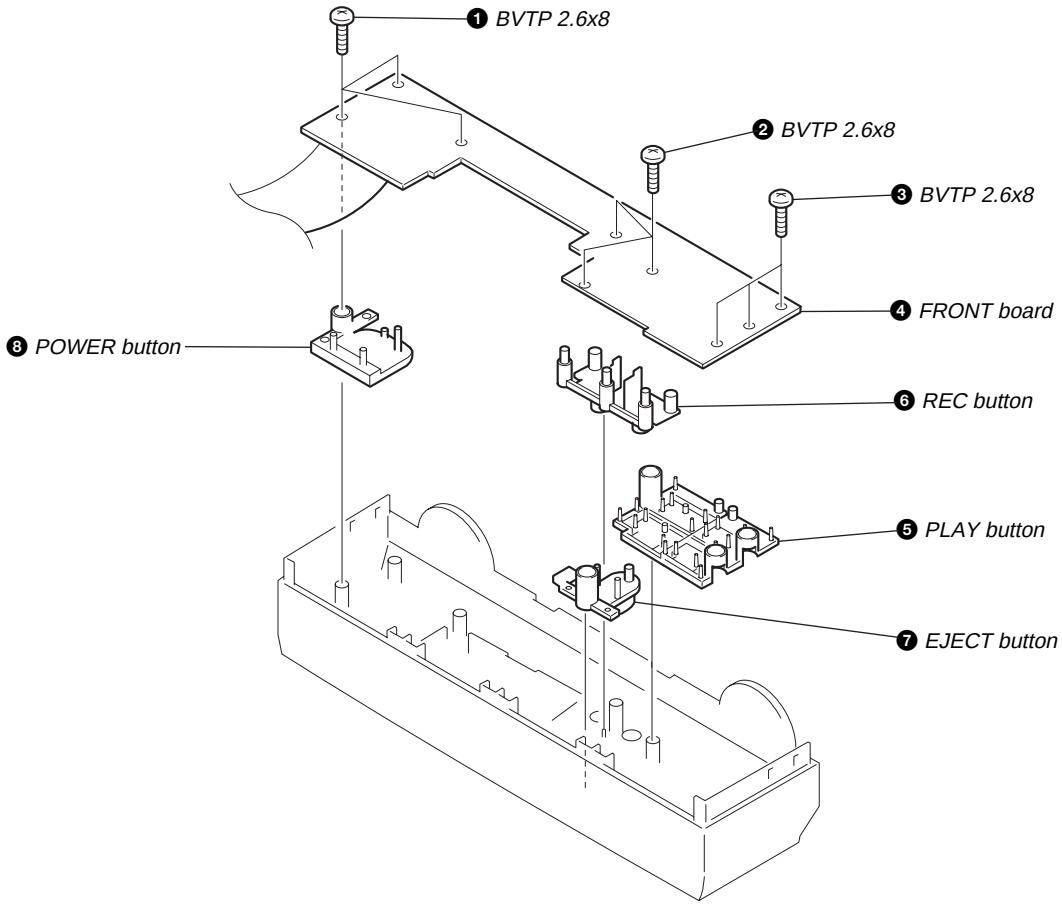
3-1. TOP COVER



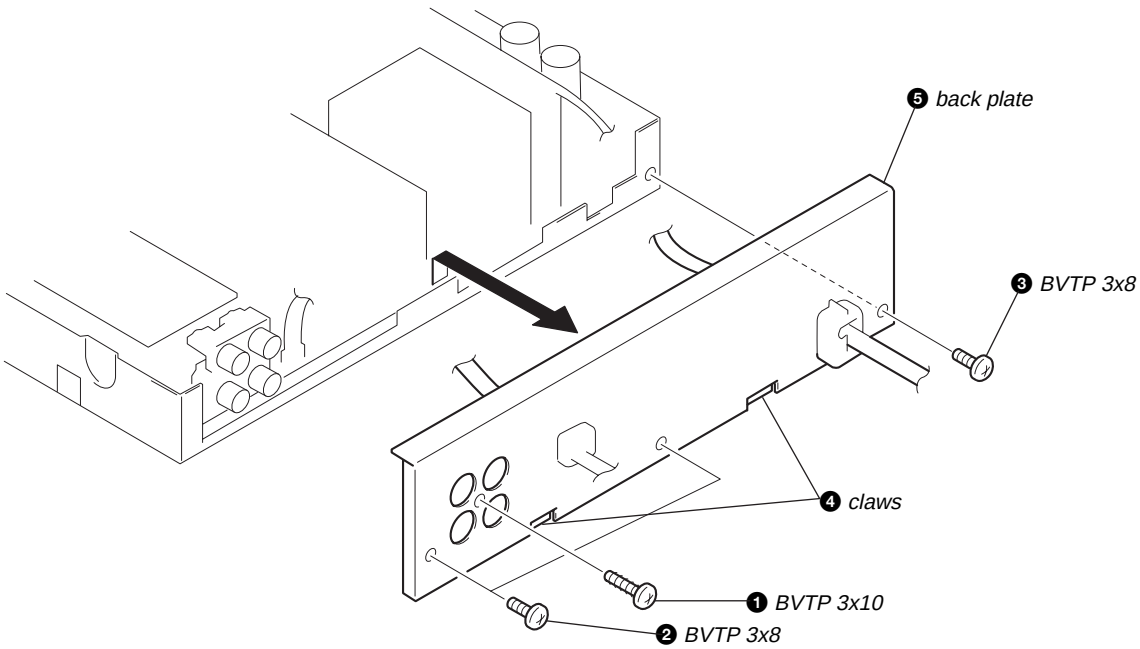
3-2. FRONT PANEL ASSY



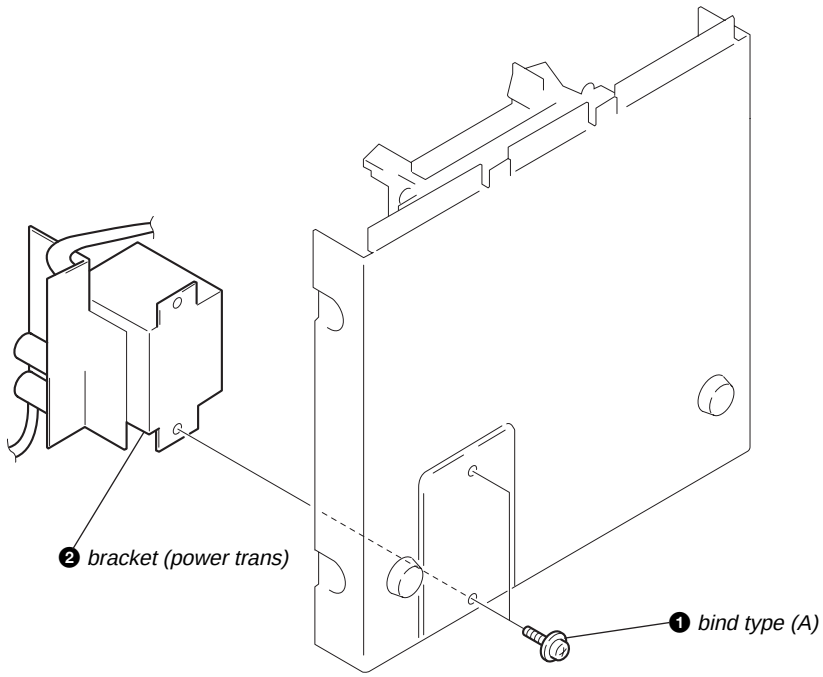
3-3. FRONT BOARD



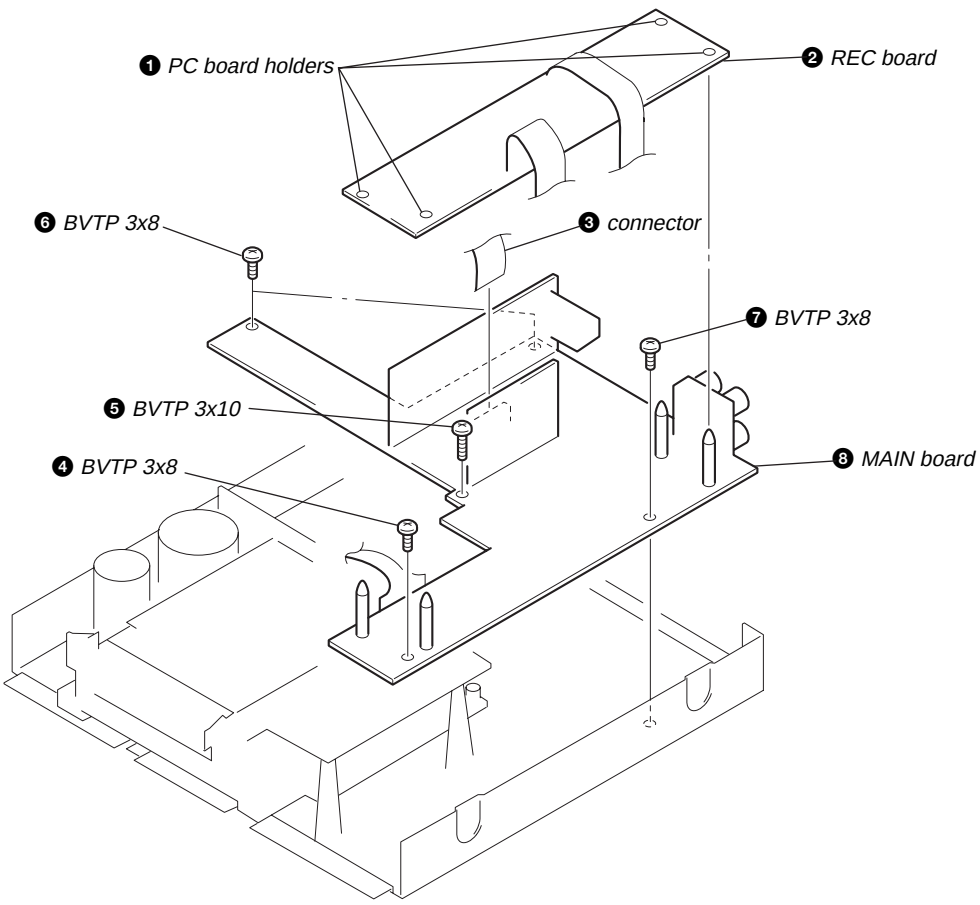
3-4. BACK PLATE



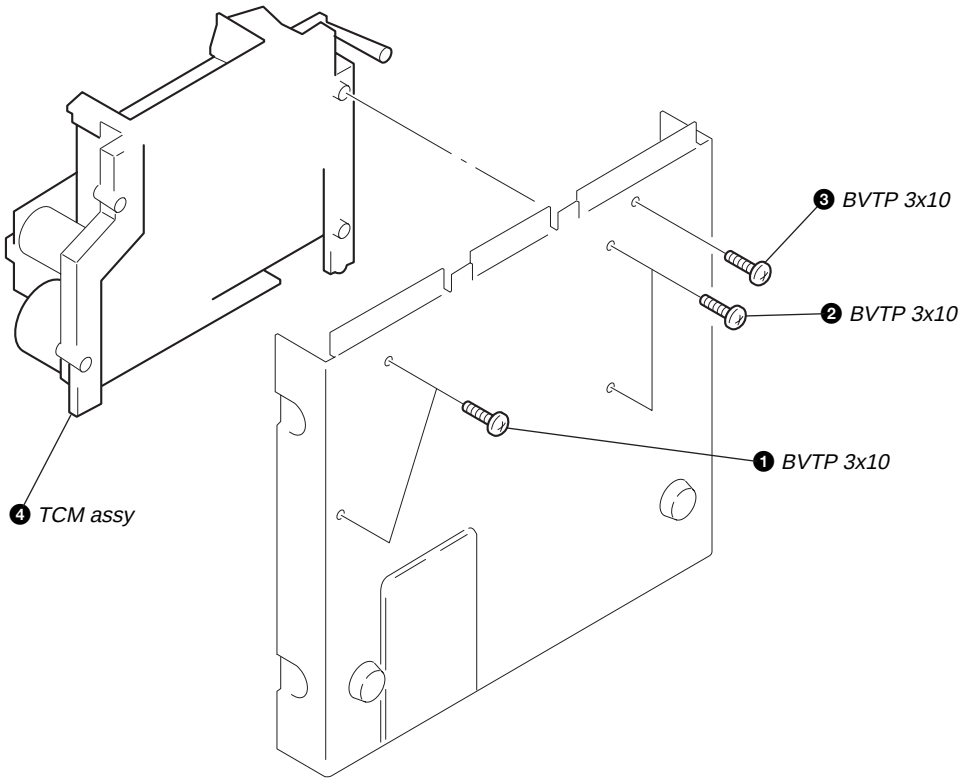
3-5. BRACKET (POWER TRANS)



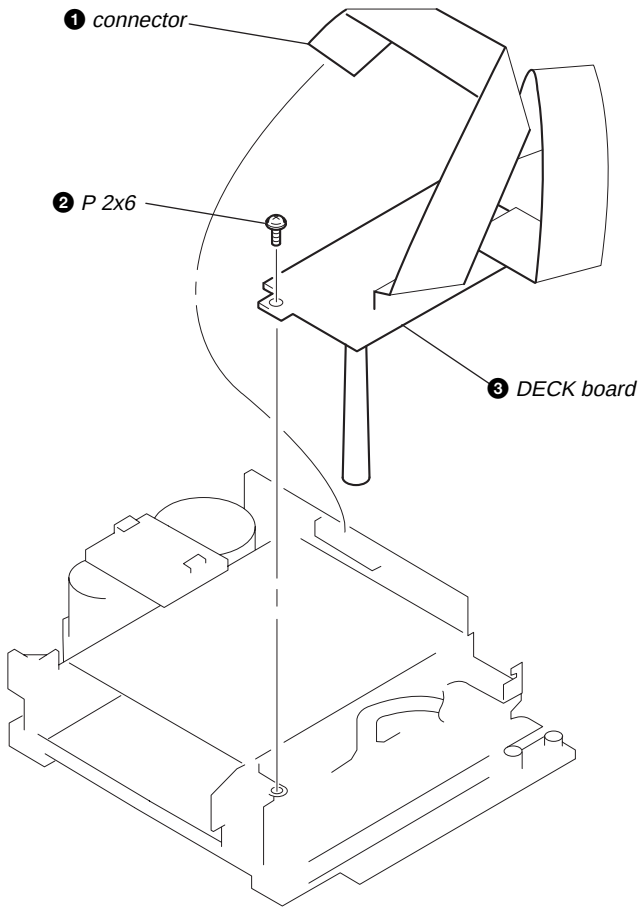
3-6. MAIN BOARD



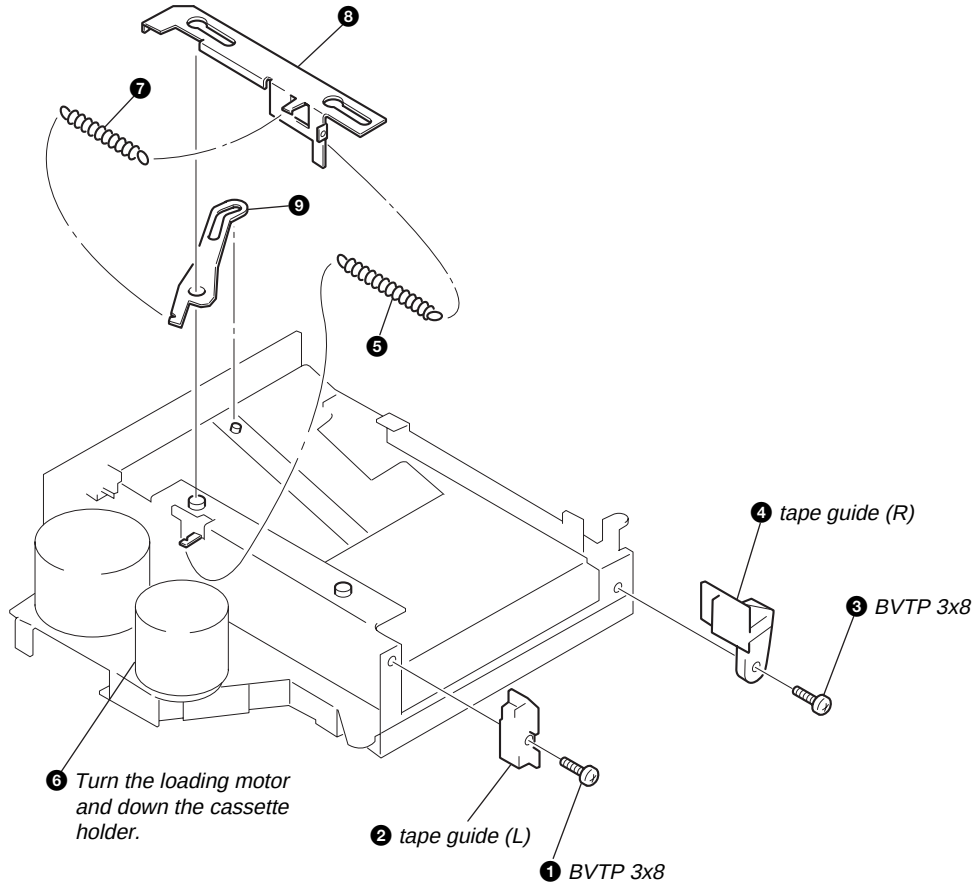
3-7. TCM ASSY



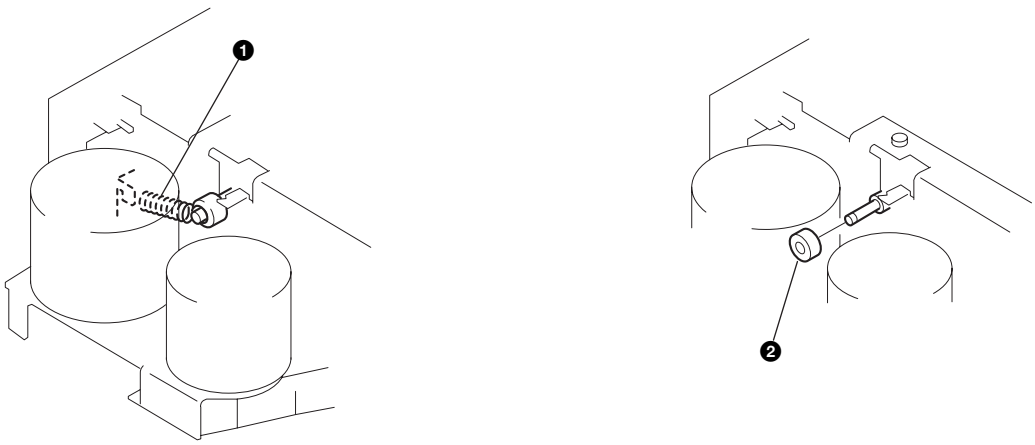
3-8. DECK BOARD



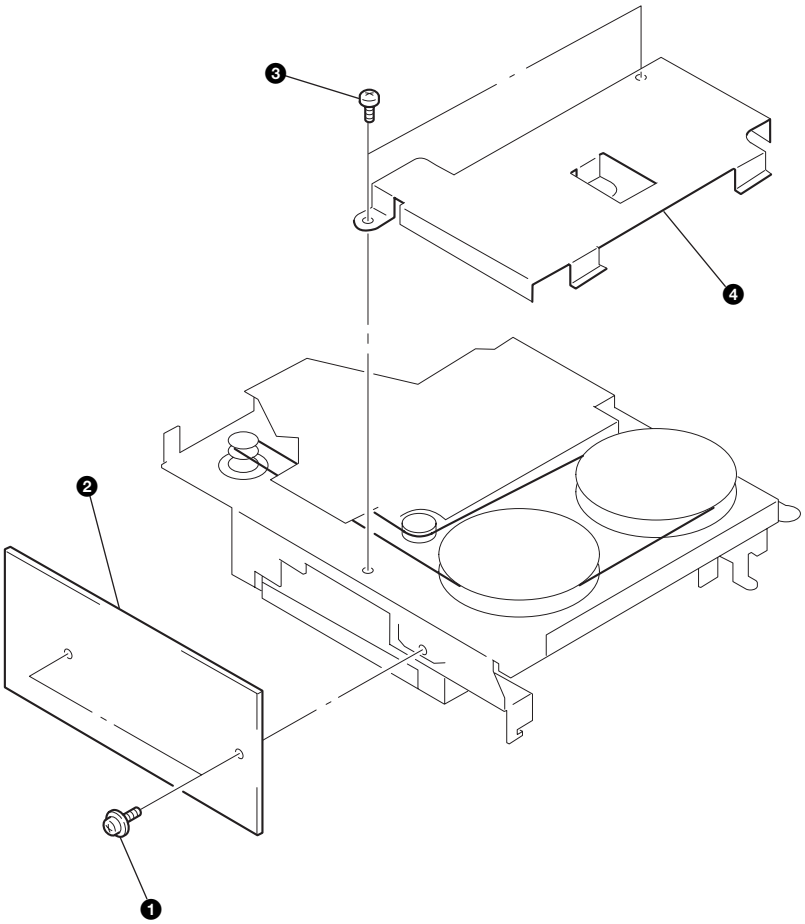
3-9. LEVER



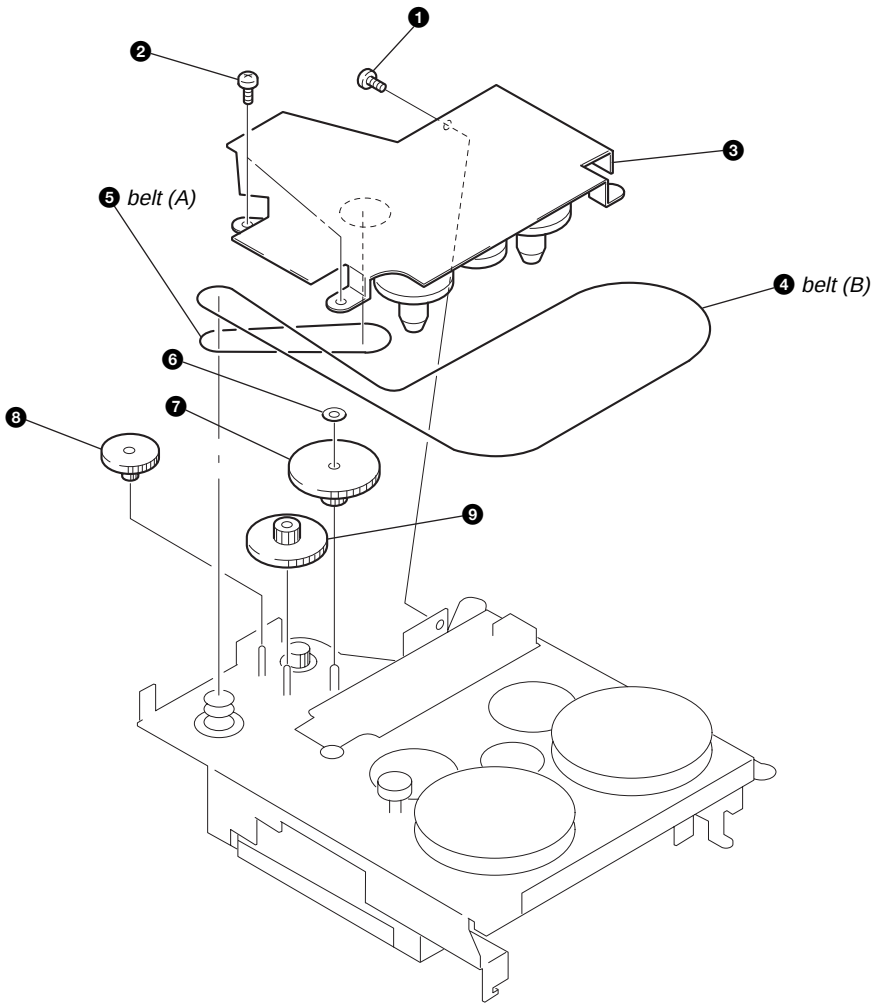
3-10. TENSION SPRING



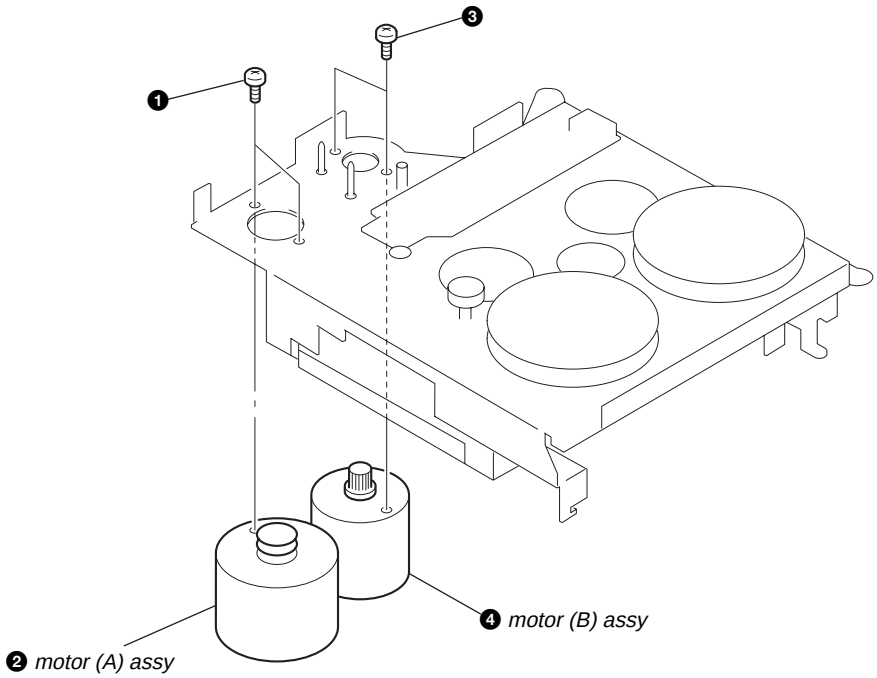
3-11. HOUSING



3-12. CHASSIS

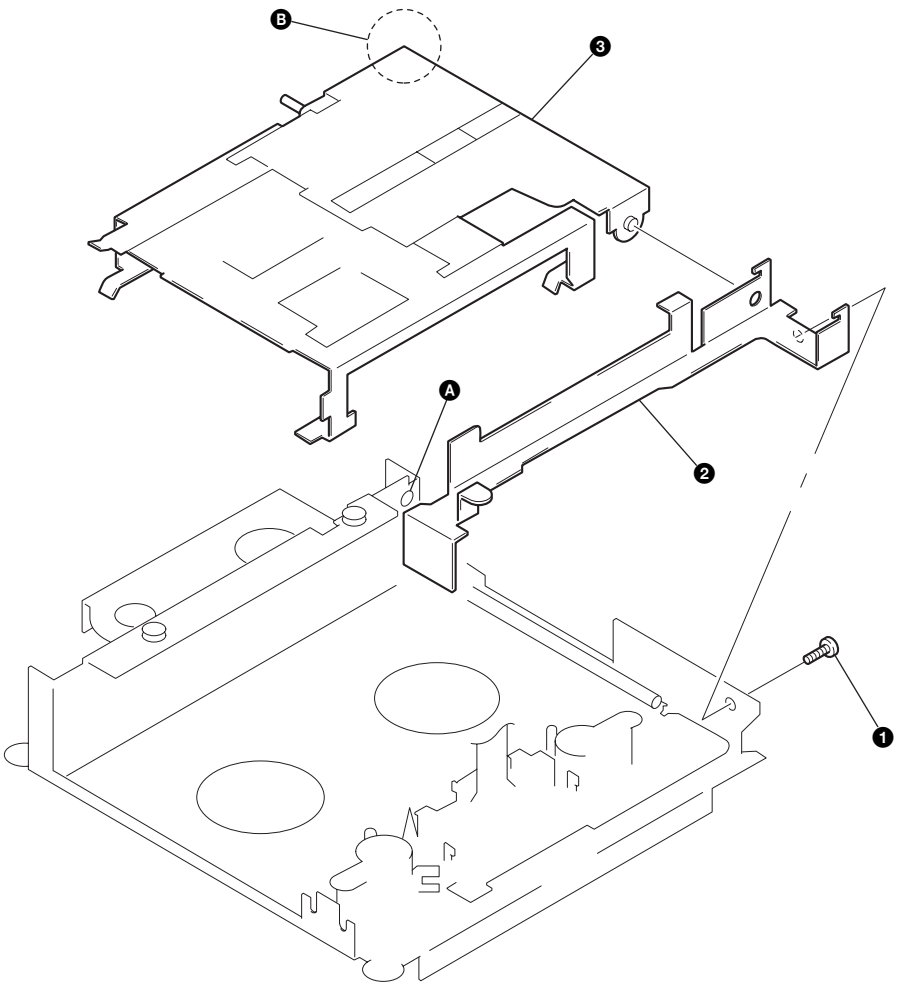


3-13. MOTOR (A)/(B) ASSY

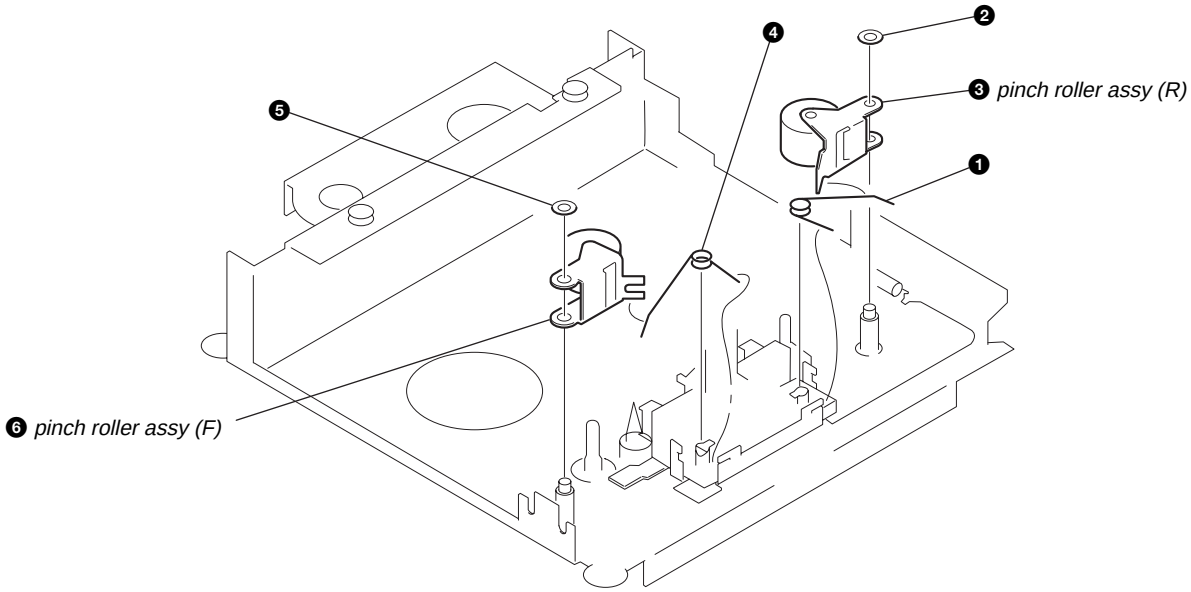


3-14. HEAD PLATE

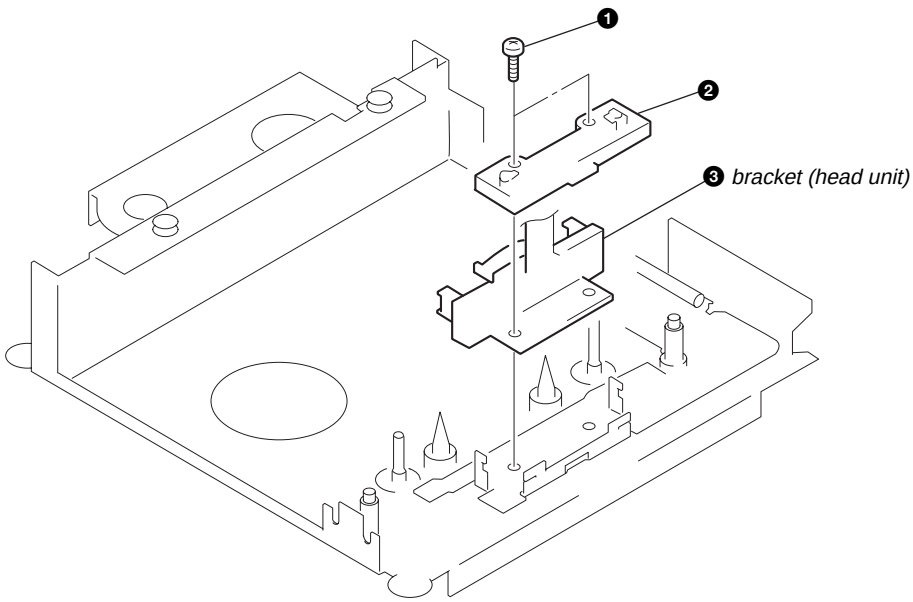
Note : On install, set the portions Ⓐ and Ⓑ.



3-15. PINCH ROLLER ASSY



3-16. BRACKET (HEAD UNIT)



SECTION 4
MECHANICAL ADJUSTMENTS

PRECAUTION

1. Clean the following parts with a denatured-alcohol-moistened swab :
   record/playback/erase head pinch roller
   rubber belts capstan
   idlers
2. Demagnetize the record/playback/erase head with a head demagnetizer. (Do not bring the head demagnetizer close to the erase head.)
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

Torque Measurement

Mode	Torque Meter	Meter Reading
FWD	CQ-102C	35 – 80 g • cm (0.49 – 1.11 oz • inch)
FWD Back tension		1 – 7 g • cm (0.012 – 0.097 oz • inch)
REV	CQ-102RC	35 – 80 g • cm (0.49 – 1.11 oz • inch)
REV Back tension		1 – 7 g • cm (0.012 – 0.097 oz • inch)
FF, REW	CQ-201B	more than 40 g • cm (more than 0.56 oz • inch)

SECTION 5
ELECTRICAL ADJUSTMENTS

PRECAUTION

1. The adjustment should be performed in the publication. (Be sure to male playback adjustment at first.)
2. The adjustments and measurement should be performed for both L-CH and R-CH.
   • Switch position
   DOLBY NR switch : OFF
   DIRECTION switch : ⇄

Standard Input Level

Input terminal	TAPE IN
source impedance	10 kΩ
input signal level	0.49 V (– 4 dB)

Standard Output Level

Output terminal	TAPE OUT
load impedance	47 kΩ
output signal level	0.49 V (– 4 dB)

Test Tape

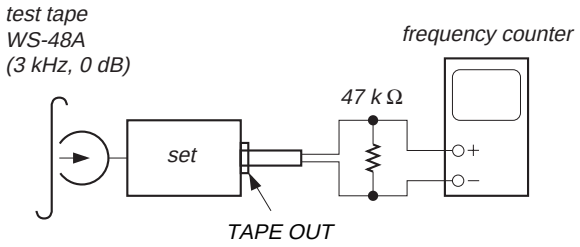
Type	Signal	Used for
WS-48A	3 kHz, 0 dB	Tape Speed Adjustment
P-4-L300	315 Hz, 0 dB	PB Level Adjustment

0 dB = 0.775 V

Tape Speed Adjustment

Procedure :

1. Mode: FWD playback



Adjustment Limits : normal speed

Reading on frequency counter
2,910 to 3,090 Hz

Confirm that the deviation between tape top and tape end is within 3%.

Adjustment Location : Capstan motor volume (See page 15.)

Sample Value of Wow and flutter

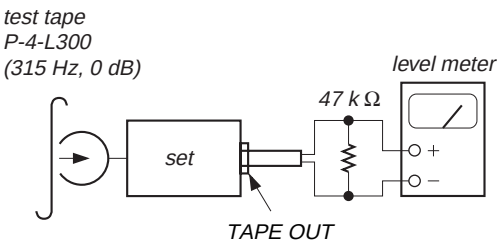
W. RMS (JIS) within 0.3%
(test tape : WS-48A)

Playback Level Adjustment

Procedure :

1. Mode: FWD playback

2. Adjust SFR03 (L-CH) and SFR04 (R-CH) on MAIN board so that the reading on level meter meets the adjustment limits below.



Adjustment Limits :

TAPE OUT level	Level difference between channels
– 4 ± 2 dB (0.39 to 0.62 V)	within 2 dB

Check that the TAPE OUT level does not change even if Playback and Stop operation is repeated several times.

Adjustment Location : MAIN board (See page 15.)

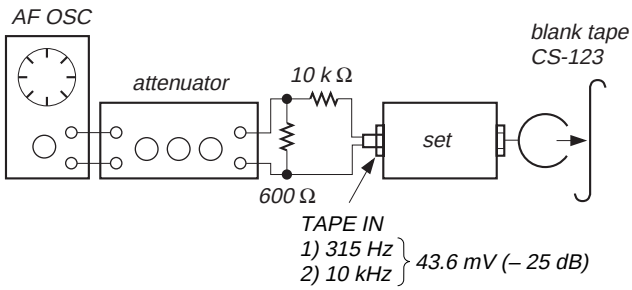
Record Bias Adjustment

Setting :

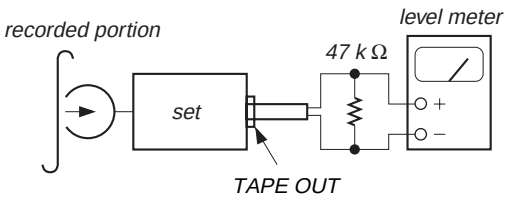
Set to the TEST mode. (See page 4.)

Procedure :

1. Mode: Record



2. Mode: Playback



3. Confirm playback the signal recorded in step 1 become adjustment level as follows.
4. If these levels do not adjustment level, adjust SFR01 (L-CH) and SFR02 (R-CH) on REC board to repeat step 1 and 2.

Adjustment Level : Difference of playback output of 10 kHz to playback output of 315 Hz : 0 ± 0.5 dB

Adjustment Location : REC board (See page 15.)

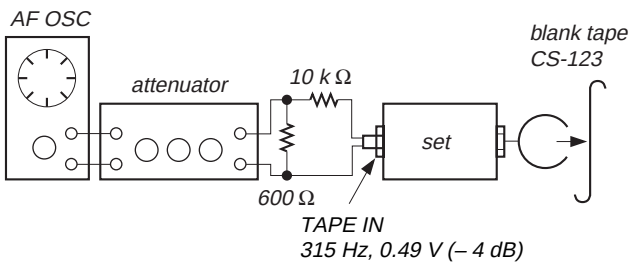
Record Level Adjustment

Setting :

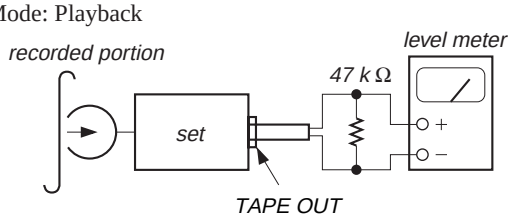
Set to the TEST mode. (See page 4.)

Procedure :

1. Mode: Record



2. Mode: Playback

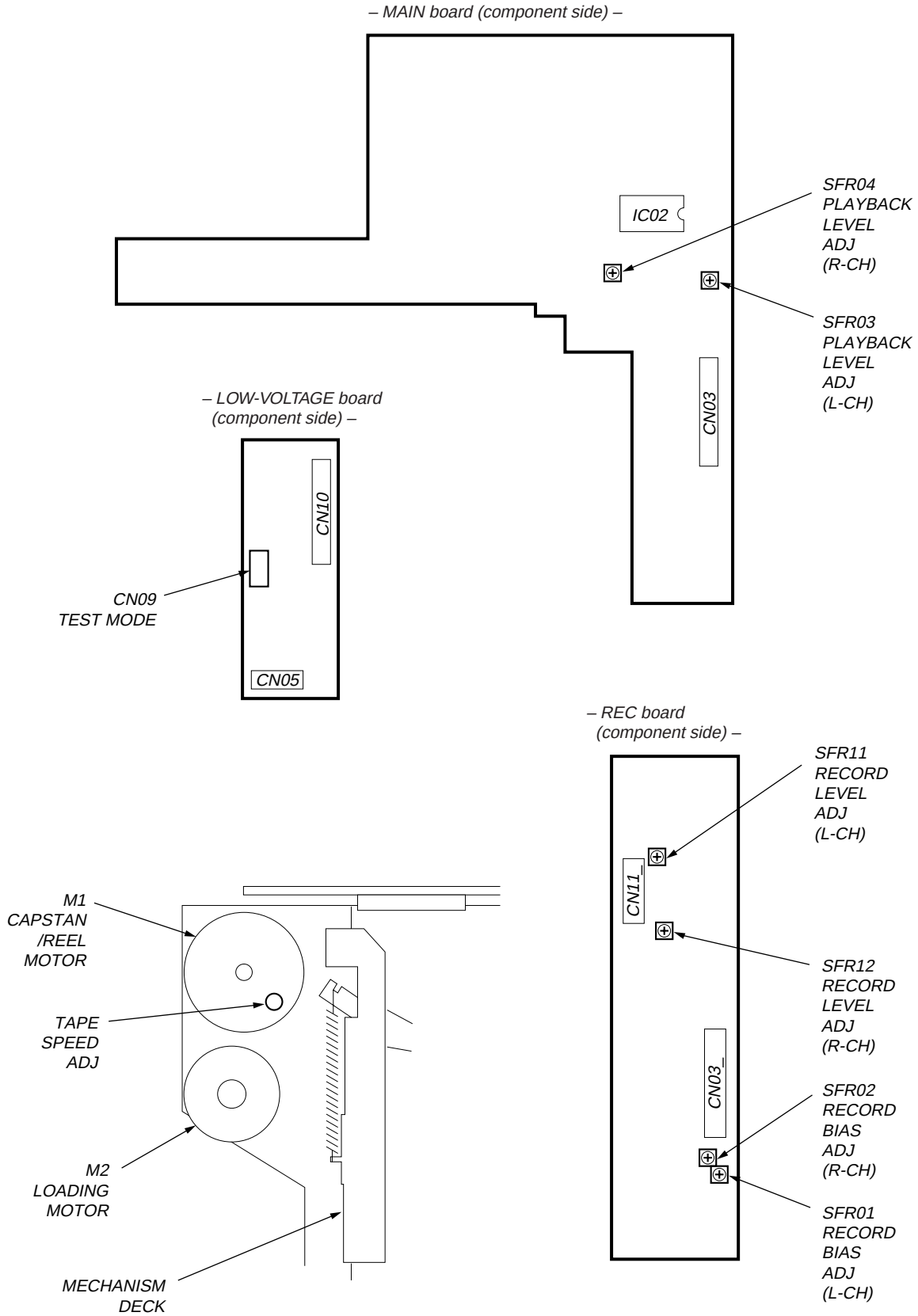


3. Confirm playback the signal recorded in step 1 become adjustment level as follows.
4. If these levels do not adjustment level, adjust SFR11 (L-CH) and SFR12 (R-CH) on REC board to repeat step 1 and 2.

Adjustment Level : Playback output level of 315 Hz : – 4 ± 2 dB (0.39 to 0.62 V)

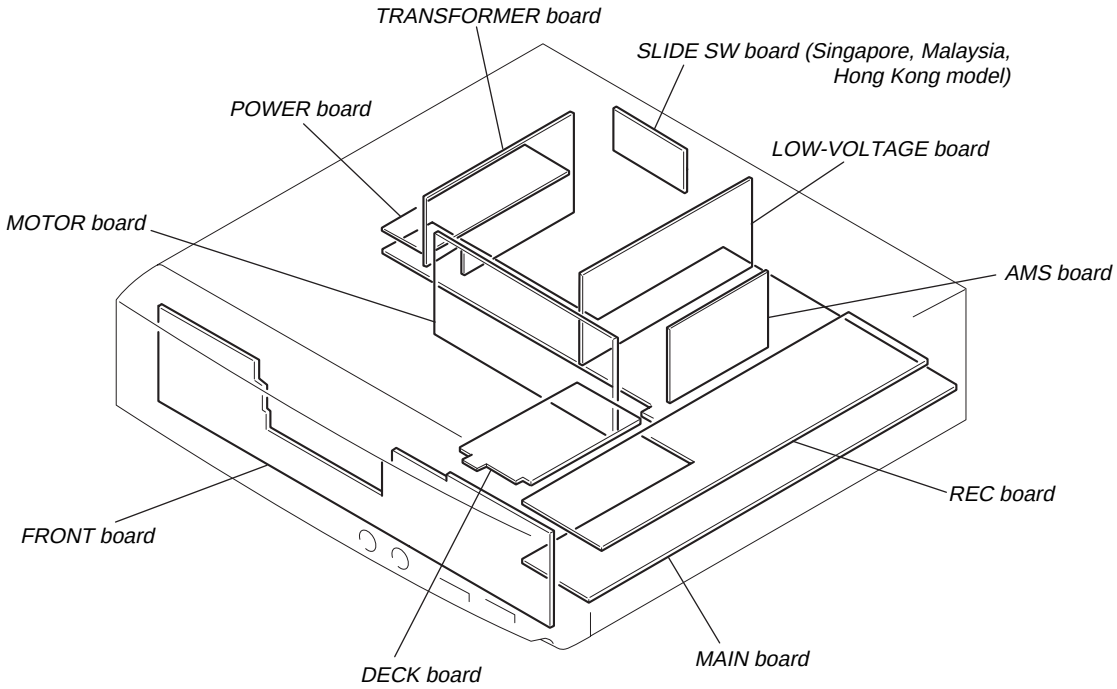
Adjustment Location : REC board (See page 15.)

Adjustment Location :

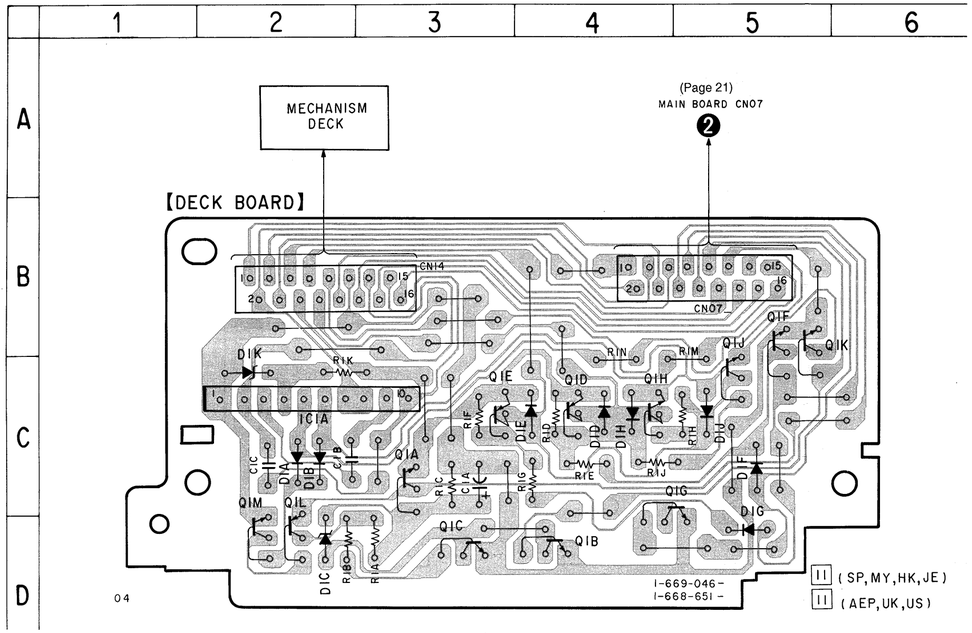


SECTION 6
DIAGRAMS

6-1. CIRCUIT BOARDS LOCATION



6-2. PRINTED WIRING BOARD — DECK SECTION —

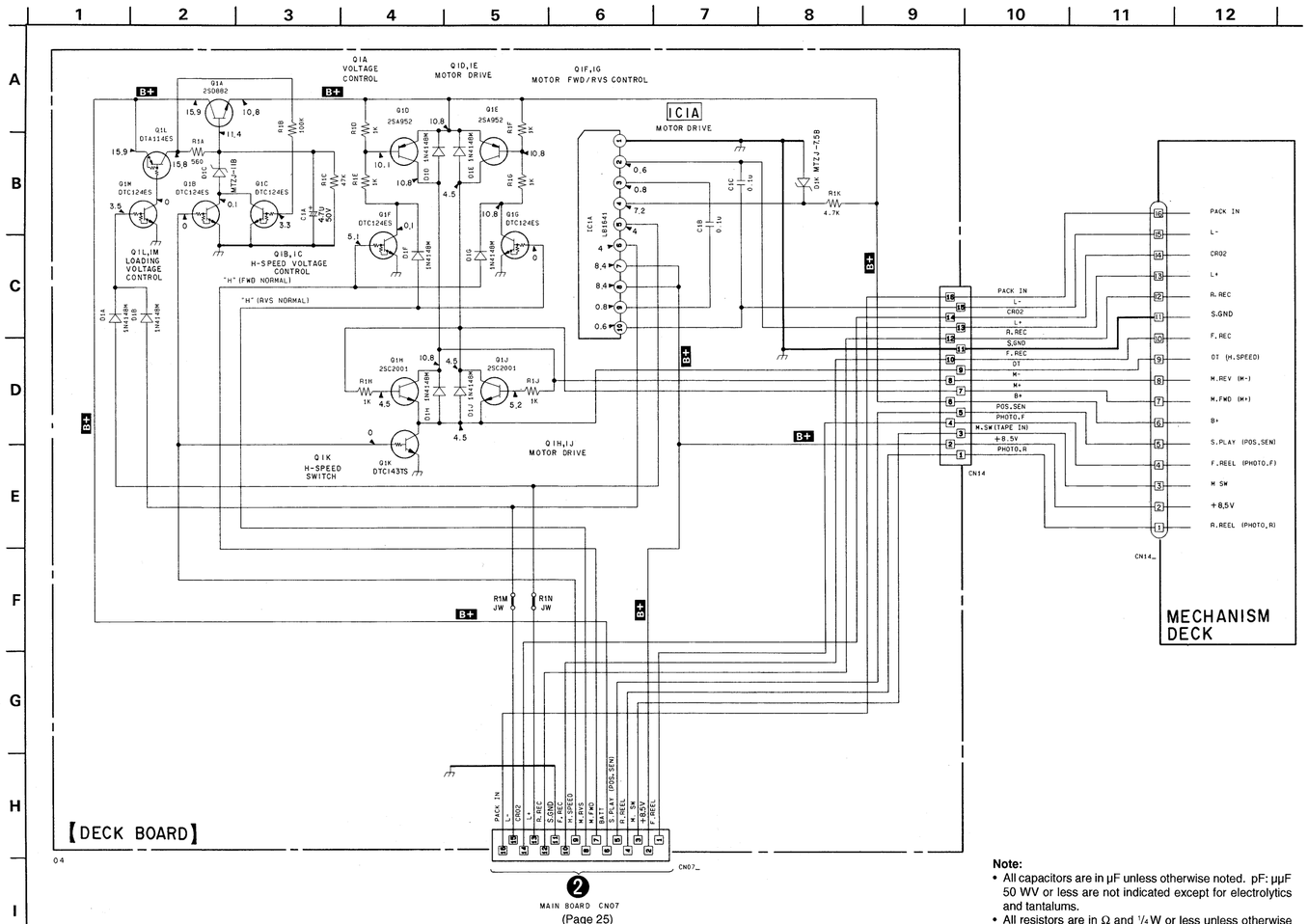


• Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D1A	C-2	Q1A	C-3
D1B	C-2	Q1B	D-4
D1C	D-2	Q1C	D-3
D1D	C-4	Q1D	C-4
D1E	C-4	Q1E	C-3
D1F	C-5	Q1F	B-5
D1G	D-5	Q1G	D-4
D1H	C-4	Q1H	C-4
D1J	C-5	Q1J	C-5
D1K	C-2	Q1K	B-5
		Q1L	D-2
IC1A	C-2	Q1M	D-2

Note:
- ○—— : parts extracted from the component side.
- ▒▒▒ : Pattern from the side which enables seeing.
- Abbreviation
  SP : Singapore model.
  MY : Malaysia model.
  HK : Hong Kong model.
  JE : Tourist model.

6-3. SCHEMATIC DIAGRAM — DECK SECTION — • Refer to page 26 for IC Block Diagrams.



Note:
- All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- B+ : B+ Line.
- Voltage is dc with respect to ground under no-signal condition.
  no mark : PB (FWD)
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.

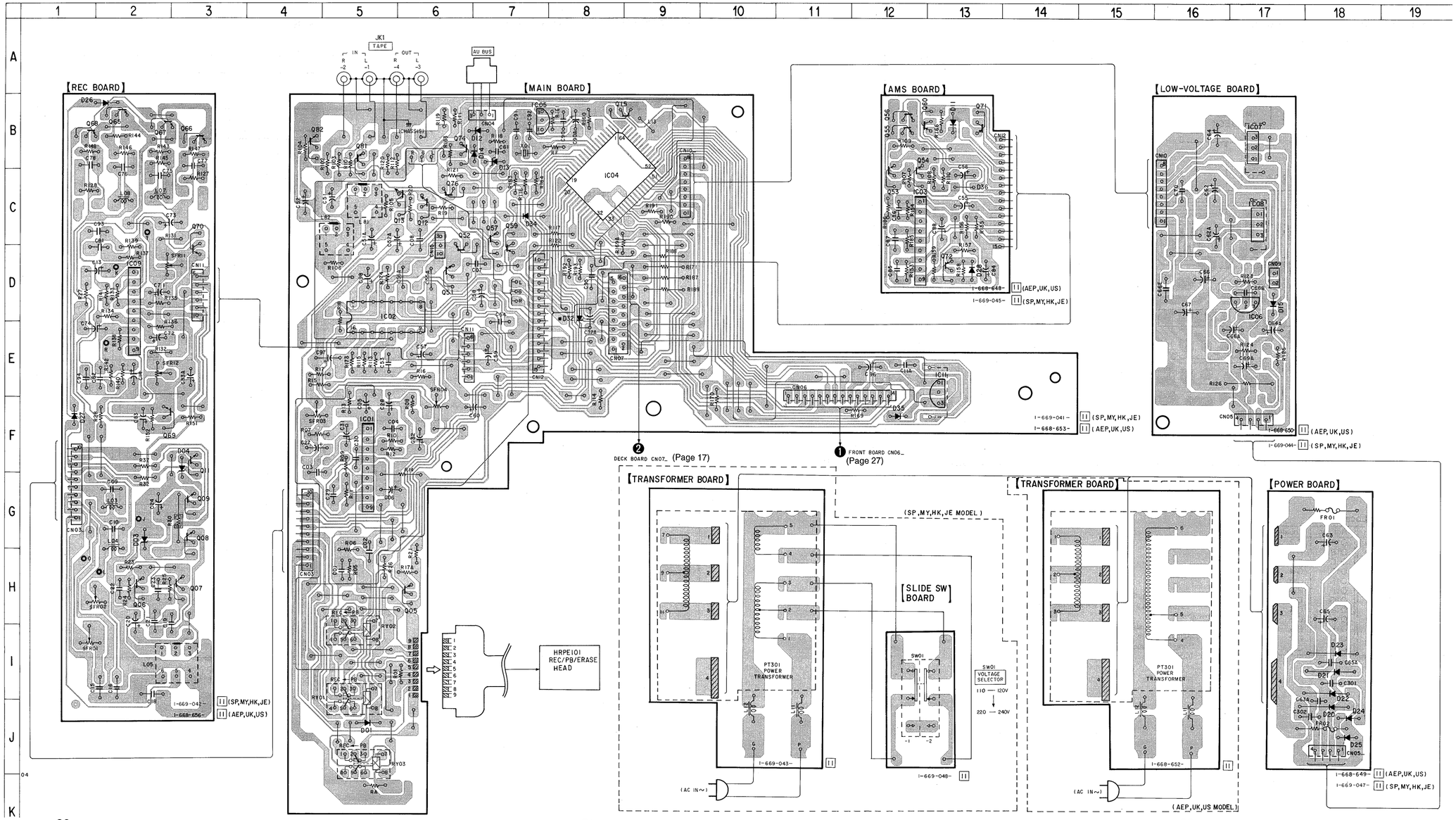
6-4. PRINTED WIRING BOARDS — MAIN SECTION —

• **Semiconductor Location**

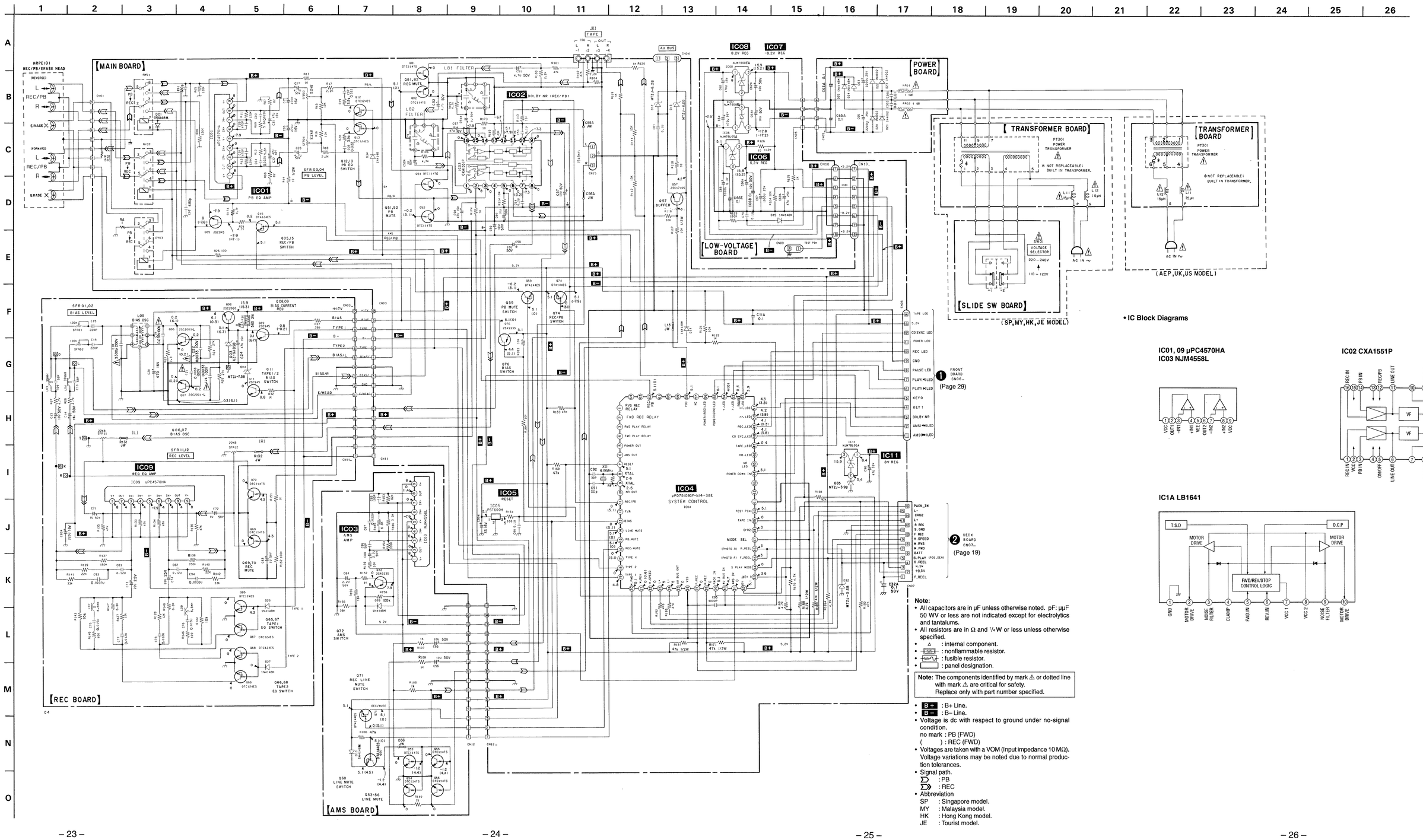
Ref. No.	Location	Ref. No.	Location
D01	J-5	Q05	H-6
D03	G-2	Q06	H-2
D04	F-3	Q07	H-3
D11	B-13	Q08	G-3
D12	B-7	Q09	G-3
D13	B-7	Q11	F-3
D14	B-6	Q12	C-6
D15	D-17	Q13	C-5
D20	J-18	Q15	B-8
D21	I-18	Q51	D-6
D22	I-18	Q52	D-6
D23	I-18	Q53	C-12
D24	J-18	Q54	C-12
D25	J-18	Q55	B-12
D26	B-2	Q56	B-12
D27	F-1	Q57	C-7
D28	D-13	Q59	C-7
D32	D-8	Q60	B-12
D34	C-7	Q65	B-2
D35	F-12	Q66	B-3
		Q67	B-2
IC01	F-5	Q68	B-1
IC02	D-5	Q69	F-2
IC03	C-12	Q70	C-3
IC04	C-8	Q71	B-13
IC05	B-7	Q72	D-13
IC06	D-17	Q74	C-6
IC07	B-17	Q76	C-6
IC08	C-17	Q81	B-5
IC09	D-2	Q82	B-4
IC11	E-13		

Note:

- ○——— : parts extracted from the component side.
- ■ : parts mounted on the conductor side.
- ⊡← : indicates side identified with part number.
- ▒▒▒ : Pattern from the side which enables seeing.
- Abbreviation
  SP : Singapore model.
  MY : Malaysia model.
  HK : Hong Kong model.
  JE : Tourist model.



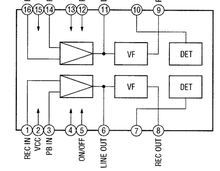
6-5. SCHEMATIC DIAGRAM — MAIN SECTION —



• IC Block Diagrams

IC01, 09 μPC4570HA
IC03 NJM4558L

IC02 CXA1551P



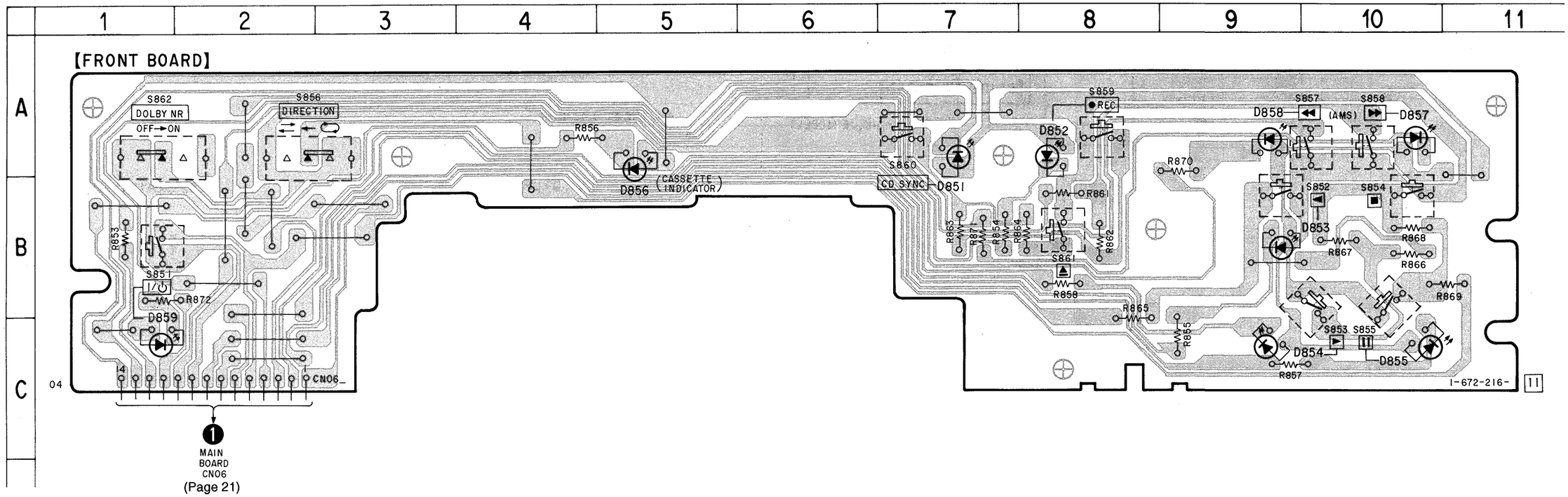
IC1A LB1641

Note:
- All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼W or less unless otherwise specified.
- △ : internal component.
- : nonflammable resistor.
- : fusible resistor.
- : panel designation.

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

- B+ : B+ Line.
- B– : B– Line.
- Voltage is dc with respect to ground under no-signal condition.
  no mark : PB (FWD)
  ( ) : REC (FWD)
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  : PB
  : REC
- Abbreviation
  SP : Singapore model.
  MY : Malaysia model.
  HK : Hong Kong model.
  JE : Tourist model.

6-6. PRINTED WIRING BOARD — FRONT PANEL SECTION —

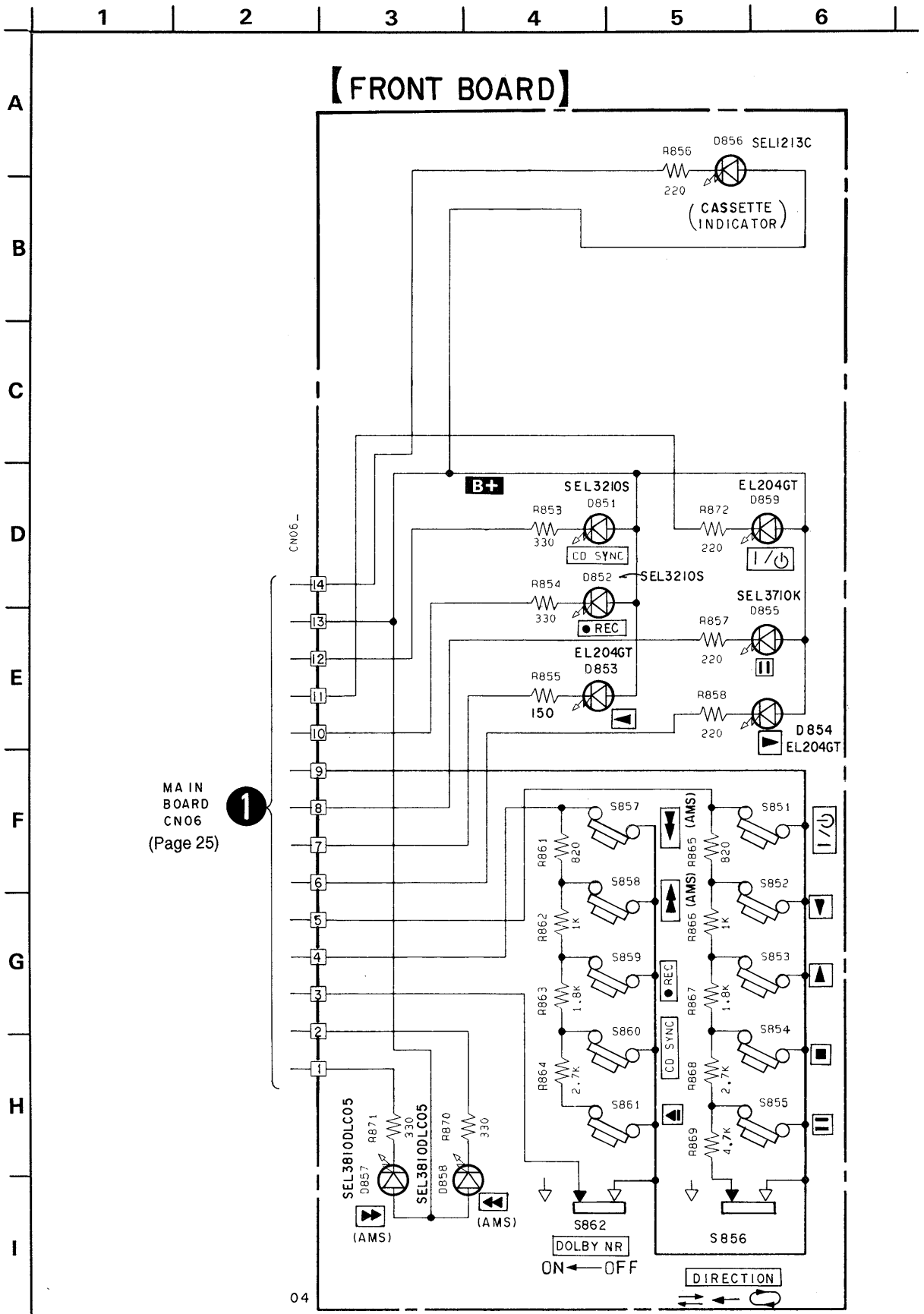


• **Semiconductor**
Location

Ref. No.	Location
D851	A-7
D852	A-8
D853	B-9
D854	C-9
D855	C-10
D856	A-5
D857	A-10
D858	A-9
D859	C-1

Note:
• ⟜—— : parts extracted from the component side.
• ▒▒▒ : Pattern from the side which enables seeing.

6-7. SCHEMATIC DIAGRAM — FRONT PANEL SECTION —



Note:

- All resistors are in Ω and 1/4W or less unless otherwise specified.
- ▭ : panel designation.
- B+ : B+ Line.

6-8. IC PIN DESCRIPTION

• IC04 μPD75108GF-N14-3BE (SYSTEM CONTROL)

Pin No.	Pin Name	I/O	Pin Description
1	RVS REC RELAY	O	RVS REC relay control output (Not used in this set.)
2	FWD REC RELAY	O	FWD REC relay control output (Not used in this set.)
3	RVS PLAY RELAY	O	RVS PLAY relay control output (Not used in this set.)
4	FWD PLAY RELAY	O	FWD PLAY relay control output (Not used in this set.)
5	POWER OUT	O	Power output (Not used in this set.)
6	AMS OUT	O	AMS gain control output (Not used in this set.)
7	RESET	I	Reset input (L : Reset)
8	XTAL	—	Oscillator circuit (4.19 MHz)
9	XTAL	—	Oscillator circuit (4.19 MHz)
10	NR OUT	O	Noise reduction signal output (Not used in this set.)
11	REC/PB	O	REC/PB select output (H : REC, L : PB)
12	F/R	O	RVS/FWD select output (H : RVS, L : FWD) (Not used in this set.)
13	BIAS	O	Bias oscillation control output (H : ON, L : OFF)
14	LINE MUTE	O	Line mute control output (H : OFF, L : ON)
15	PB.MUTE	O	PB mute control output (H : OFF, L : ON)
16	REC.MUTE	O	REC mute control output (H : OFF, L : ON)
17	TAPE 4	O	REC equalizer select output (H : METAL) (Not used in this set.)
18	TAPE 2	O	REC equalizer select output (H : CrO_2)
19	TAPE 1	O	REC equalizer select output (H : NORMAL)
20	M.FWD	O	Reel motor forward direction rotation output
21	M.REV	O	Reel motor reverse direction rotation output
22	H.SPEED	O	Tape speed control output
23	L+	O	Loading motor forward direction rotation output
24	L-	O	Loading motor reverse direction rotation output
25	AU BUS OUT	O	AU BUS signal output
26	VSS	—	Ground
27	F.REC	I	Mechanism deck FWD REC PROOF claw detection signal input (H : REC inhibit)
28	R.REC	I	Mechanism deck RVS REC PROOF claw detection signal input (H : REC inhibit)
29	PACK IN	I	Loading detection signal input
30	AU BUS IN	I	AU BUS signal input
31	AMS IN	I	AMS signal input
32	KEY 1	I	Key switch input 1
33	KEY 0	I	Key switch input 0
34	S.PLAY MODE	I	Mechanism deck tape position detection signal input
35	F.REEL	I	Mechanism deck FWD reel sensor detection signal input
36	R.REEL	I	Mechanism deck RVS reel sensor detection signal input
37	MODE SEL	I	Connect to Ground in this set.
38	CrO2	I	Mechanism deck CrO_2 switch input
39	TAPE IN	I	Mechanism deck HALF switch input
40	TEST PIN	I	Input for test mode. (L : Test mode)
41	NC	I	Connect to Ground in this set.
42, 43	NC	O	Not used in this set.
44	POWER DOWN IN	I	Power detection input
45	NR.LED	O	NR LED output (Not used in this set.)
46	PB.LED	O	PLAYBACK LED output (Not used in this set.)
47	TAPE.LED	O	Cassette indicator LED output
48	CD SYC.LED	O	CD SYNC LED output
49	REC.LED	O	● REC LED output
50	>>.LED	O	▶▶ LED output
51	<<.LED	O	◀◀ LED output
52	PAUSE.LED	O	❚❚ LED output

Pin No.	Pin Name	I/O	Pin Description
53	>.LED	O	▶ LED output
54	<.LED	O	◀ LED output
55	POWER(GRN)LED	O	I / ⏻ (POWER) LED output
56	POWER(RED)LED	O	I / ⏻ (POWER) LED output (Not used in this set.)
57	NC	—	Not used in this set.
58	VDD	—	Power supply pin
59 – 61	NC	—	Not used in this set.
62	REC/PB	O	REC/PB select output (H : REC, L : PB)
63, 64	NC	—	Not used in this set.

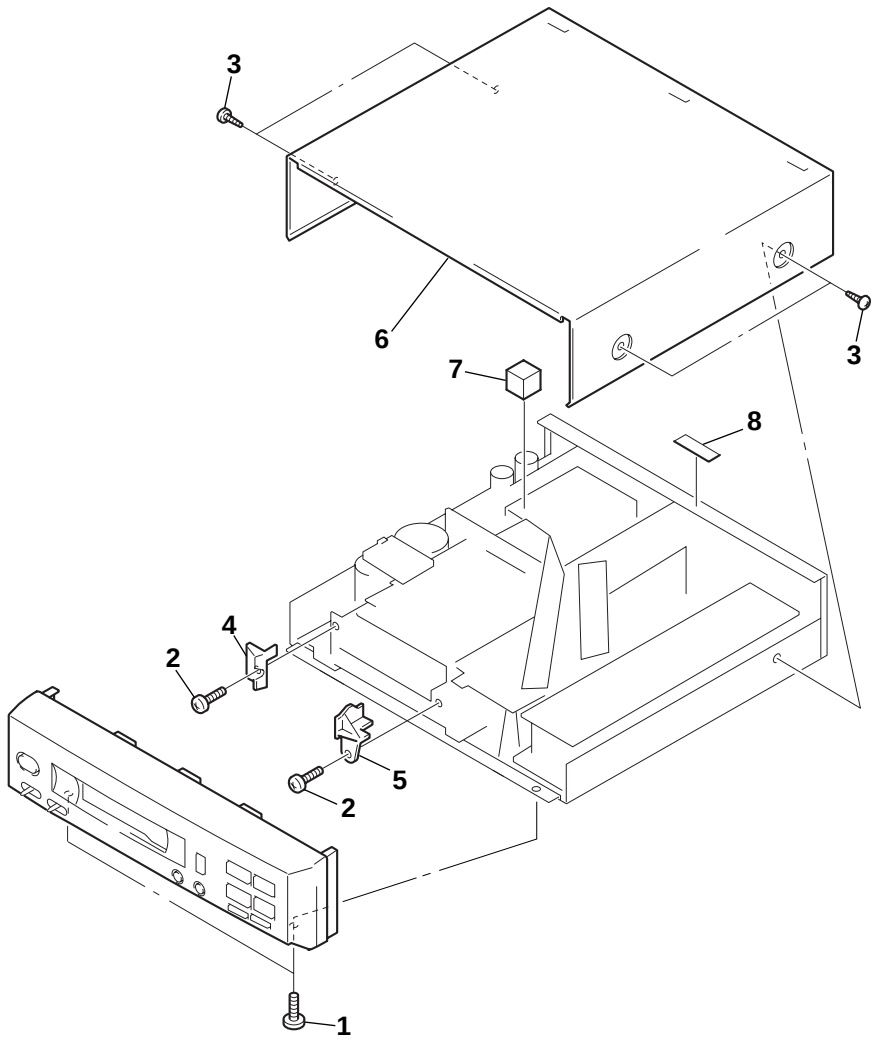
SECTION 7
EXPLODED VIEWS

NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Abbreviation
  SP : Singapore model
  MY : Malaysia model
  HK : Hong Kong model
  JE : Tourist model
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example :
  KNOB, BALANCE (WHITE) ... (RED)
  ↑ ↑
  Parts Color Cabinet's Color
- Accessories and packing materials are given in the last of this parts list.

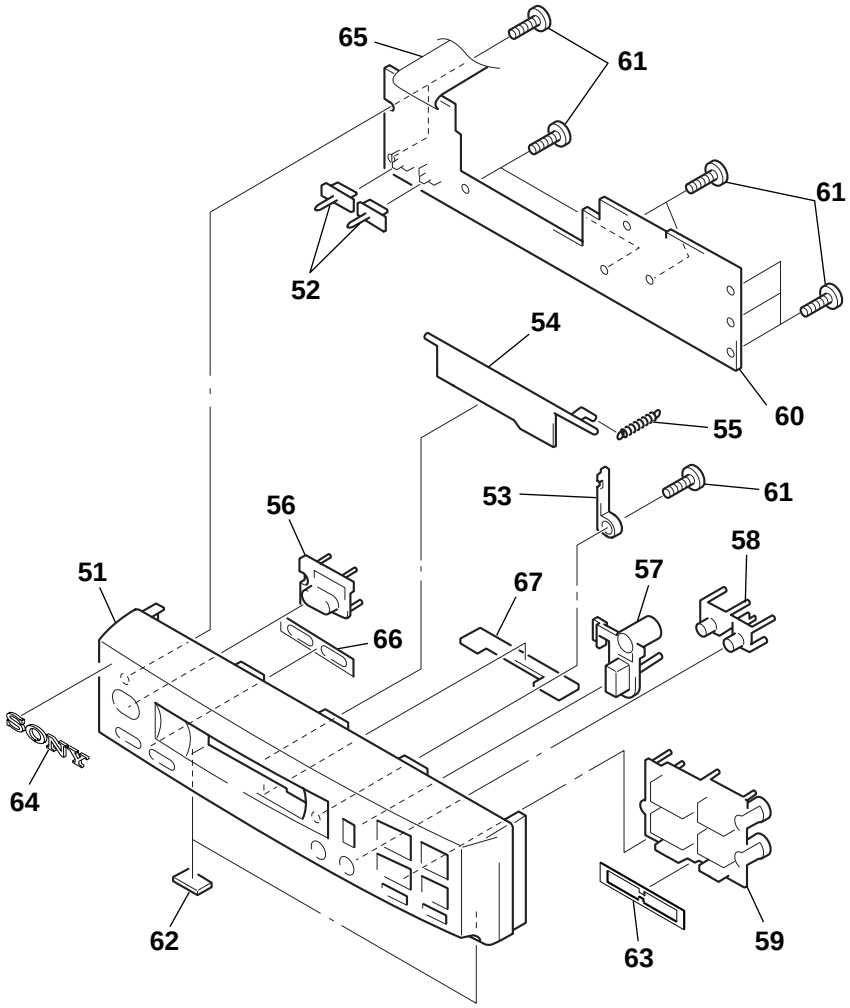
The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety. Replace only with part number specified.

7-1. TOP COVER SECTION



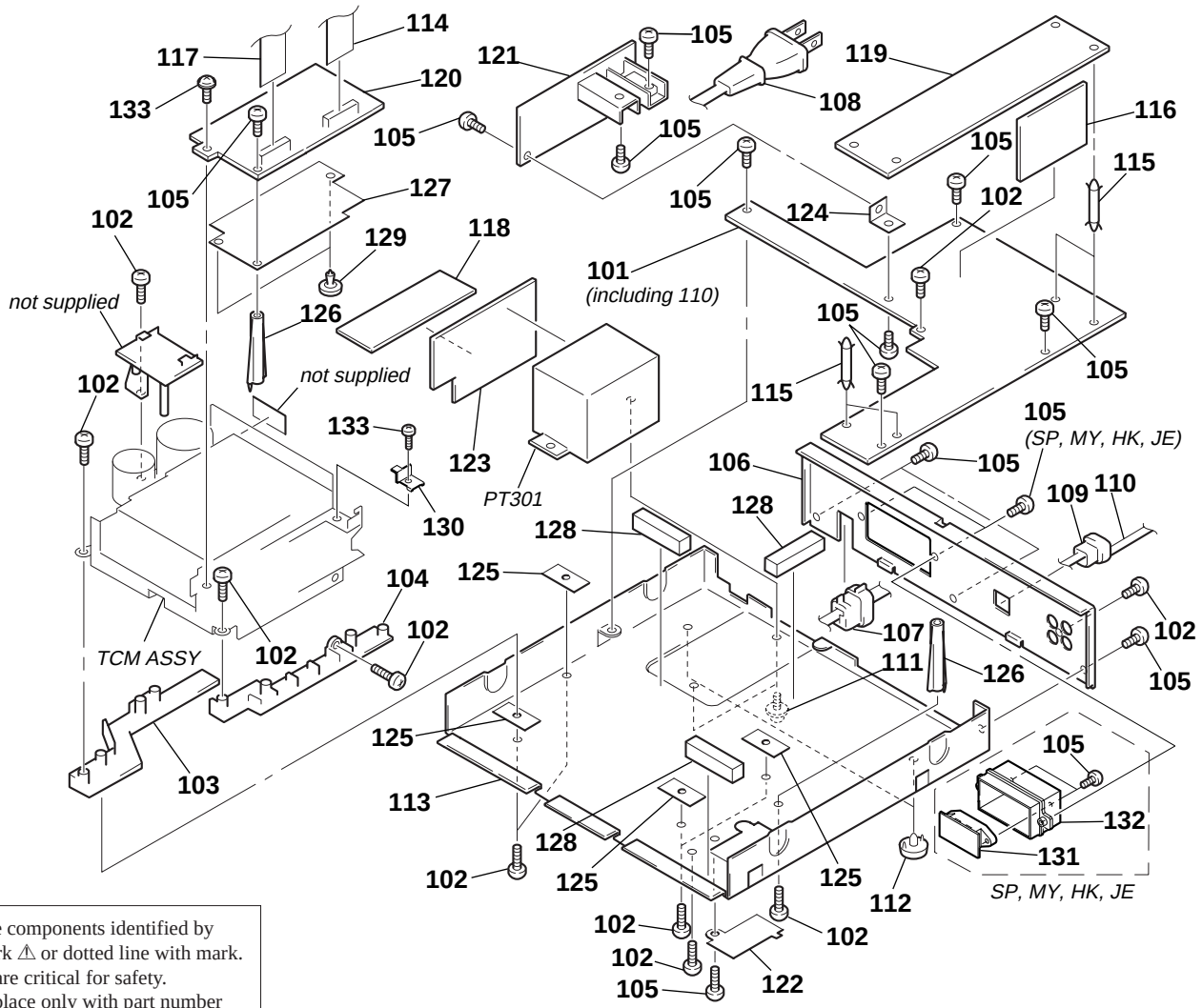
Ref. No.	Part No.	Description	Remark
1	7-685-872-09	SCREW +BVTT 3X8 (S)	
2	4-951-620-01	SCREW (2.6X8), +BVTP	
3	3-363-099-51	SCREW (CASE 3 TP2)	
* 4	3-031-218-01	TAPE GUIDE (L)	
* 5	3-031-219-01	TAPE GUIDE (R)	
* 6	3-021-541-01	TOP COVER	
7	3-031-313-01	EVA CUSHION	
8	3-021-574-01	EVC SPACER	

7-2. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark
51	3-031-202-01	FRONT PANEL	
52	3-031-205-01	DOLBY KNOB	
53	3-031-309-01	DOOR HOLDER	
54	3-031-203-01	DOOR CASSETTE	
55	3-031-201-01	DOOR SPRING	
56	3-031-204-01	POWER BUTTON	
57	3-031-207-01	EJECT BUTTON	
58	3-031-215-01	REC.BUTTON	
59	3-031-206-01	PLAY BUTTON BLOCK	
* 60	A-2007-809-A	FRONT BOARD, COMPLETE	
61	4-951-620-01	SCREW (2.6X8), +BVTP	
62	3-020-401-01	FOOT (FRONT)	
63	3-031-311-01	PVC SHEET	
64	4-962-708-01	EMBLEM (4-A), SONY	
65	3-022-176-01	BRACKET (FLEXIBLE D)	
66	3-031-310-01	KNOB PAD	
67	3-031-312-01	PVC SHEET (B)	

7-3. CHASSIS SECTION

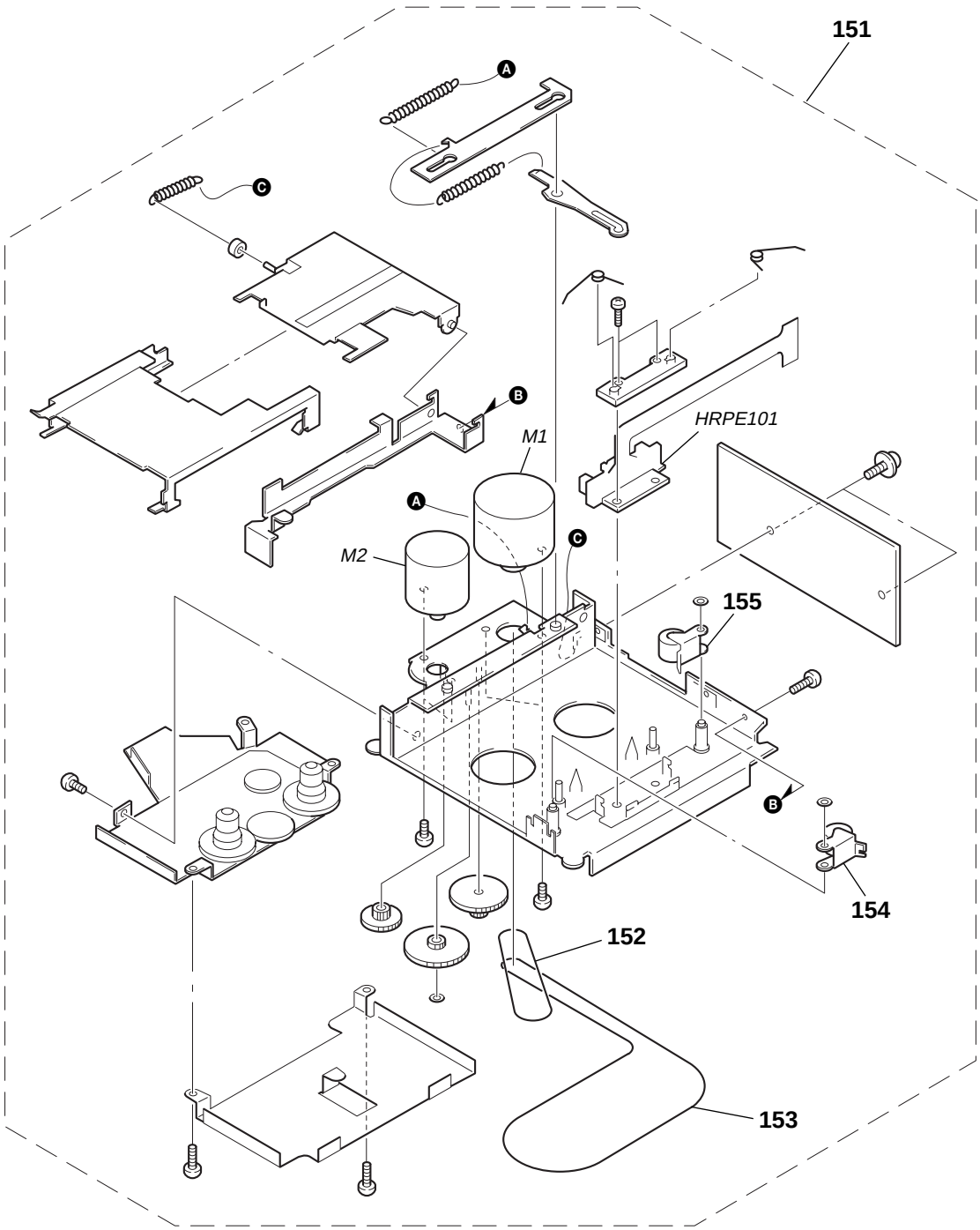


The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety. Replace only with part number specified.

Ref. No.	Part No.	Description	Remark
* 101	A-2007-767-A	MAIN BOARD, COMPLETE (SP,MY,HK,JE)	
* 101	A-2056-691-A	MAIN BOARD, COMPLETE (AEP,UK,US)	
102	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	
* 103	3-020-425-01	DECK CHASSIS (L)	
* 104	3-020-434-01	DECK CHASSIS (R)	
105	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
* 106	3-032-126-01	BACK PLATE (US)	
* 106	3-032-128-01	BACK PLATE (SP,MY,HK)	
* 106	3-032-129-01	BACK PLATE (AEP,UK)	
* 106	3-032-130-01	BACK PLATE (JE)	
107	3-020-432-01	CORD STOPPER	
⚠108	3-021-914-01	BRACKET (AC CORD) (EXCEPT UK,US)	
⚠108	3-021-917-01	BRACKET (AC CORD) (UK)	
⚠108	3-021-977-01	BRACKET (AC CORD) (US)	
109	3-020-426-01	CORD BUSHING	
110	3-020-433-01	BRACKET (3P WIRE) (AU BUS)	
111	3-020-440-01	BIND TYPE (A)	
112	3-020-399-01	FOOT (REAR)	
* 113	3-031-216-01	BOTTOM PLATE	
114	3-021-552-01	BRACKET (FLEXIBLE A)	
* 115	3-020-435-01	PC BOARD HOLDER	
* 116	1-668-648-11	AMS BOARD (AEP,UK,US)	
* 116	1-669-045-11	AMS BOARD (SP,MY,HK,JE)	
117	3-020-962-01	BRACKET (FLEXIBLE B)	

Ref. No.	Part No.	Description	Remark
* 118	1-668-649-11	POWER BOARD (AEP,UK,US)	
* 118	1-669-047-11	POWER BOARD (SP,MY,HK,JE)	
* 119	A-2007-768-A	REC BOARD, COMPLETE (SP,MY,HK,JE)	
* 119	A-2056-692-A	REC BOARD, COMPLETE (AEP,UK,US)	
* 120	1-668-651-11	DECK BOARD (AEP,UK,US)	
* 120	1-669-046-11	DECK BOARD (SP,MY,HK,JE)	
* 121	1-668-650-11	LOW-VOLTAGE BOARD (AEP,UK,US)	
* 121	1-669-044-11	LOW-VOLTAGE BOARD (SP,MY,HK,JE)	
* 122	3-020-439-01	BOTTOM COVER	
* 123	1-668-652-11	TRANSFORMER BOARD (AEP,UK,US)	
* 123	1-669-043-11	TRANSFORMER BOARD (SP,MY,HK,JE)	
* 124	3-020-429-01	BACK PLATE BRACKET (A)	
125	3-020-438-01	HEMELON WASHER	
126	3-021-547-01	PC BOARD SUPPORT	
127	3-021-548-01	DECK PC BOARD SHEET	
128	3-021-549-01	CUSHION	
129	3-021-550-01	P-RIVET	
130	3-021-545-01	DECK BRACKET	
* 131	1-669-048-11	SLIDE SW BOARD (SP,MY,HK,JE)	
132	3-021-922-01	SWITCH COVER (SP,MY,HK,JE)	
133	7-627-553-68	SCREW, PRECISION +P 2X6	
⚠PT301	3-021-913-01	BRACKET (POWER TRANS) (AEP,UK)	
⚠PT301	3-021-925-01	BRACKET (POWER TRANS) (SP,MY,HK,JE)	
⚠PT301	3-021-976-01	BRACKET (POWER TRANS) (US)	

7-4. TCM ASSY SECTION



Ref. No.	Part No.	Description	Remark
* 151	A-2004-641-A	TCM ASSY	
152	3-020-444-01	BELT (A)	
153	3-020-445-01	BELT (B)	
154	3-020-443-01	PINCH ROLLER ASSY (F)	

Ref. No.	Part No.	Description	Remark
155	3-020-450-01	PINCH ROLLER ASSY (R)	
HRPE101	3-020-446-01	BRACKET (HEAD UNIT)	
M1	3-020-447-01	MOTOR (A) ASSY (REEL/CAPSTAN)	
M2	3-020-448-01	MOTOR (B) ASSY (LOADING)	

AMS **DECK**

SECTION 8
ELECTRICAL PARTS LIST

NOTE:
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL:Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F:nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u : µ, for example:
  uA.. : µA.. uPA.. : µPA..
  uPB.. : µPB.. uPC.. : µPC.. uPD.. : µPD..
- CAPACITORS
  uF : µF
- COILS
  uH : µH

The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety.
Replace only with part number specified.

When indicating parts by reference number, please include the board.

- Abbreviation
  SP : Singapore model
  MY : Malaysia model
  HK : Hong Kong model
  JE : Tourist model

Ref. No.	Part No.	Description			Remark
*	1-668-648-11	AMS BOARD (AEP,UK,US)			
*	1-669-045-11	AMS BOARD (SP,MY,HK,JE)			
		**********			
		< CAPACITOR >			
C55	1-124-907-11	ELECT	10uF	20%	50V
C56	1-124-907-11	ELECT	10uF	20%	50V
C84	1-126-961-11	ELECT	2.2uF	20%	50V
C85	1-162-282-31	CERAMIC	100PF	10%	50V
C86	1-162-217-31	CERAMIC	56PF	5%	50V
C87	1-101-005-00	CERAMIC	0.022uF		50V
C88	1-126-961-11	ELECT	2.2uF	20%	50V
		< DIODE >			
D11	8-719-911-19	DIODE 1SS119			
D28	8-719-911-19	DIODE 1SS119			
		< IC >			
IC03	8-759-505-55	IC NJM4558L			
		< TRANSISTOR >			
Q53	8-729-029-68	TRANSISTOR DTC114TSA			
Q54	8-729-029-68	TRANSISTOR DTC114TSA			
Q55	8-729-029-68	TRANSISTOR DTC114TSA			
Q56	8-729-029-68	TRANSISTOR DTC114TSA			
Q60	8-729-900-65	TRANSISTOR DTA144ES			
Q71	8-729-900-65	TRANSISTOR DTA144ES			
Q72	8-729-119-76	TRANSISTOR 2SA1175-HFE			
		< RESISTOR >			
R107	1-249-417-11	CARBON	1K	5%	1/4W
R108	1-249-417-11	CARBON	1K	5%	1/4W
R109	1-249-417-11	CARBON	1K	5%	1/4W
R110	1-249-417-11	CARBON	1K	5%	1/4W
R153	1-249-440-11	CARBON	82K	5%	1/4W
R154	1-247-879-11	CARBON	100K	5%	1/4W
R155	1-249-436-11	CARBON	39K	5%	1/4W
R156	1-249-432-11	CARBON	18K	5%	1/4W
R157	1-249-417-11	CARBON	1K	5%	1/4W
R158	1-247-879-11	CARBON	100K	5%	1/4W
R159	1-247-855-11	CARBON	10K	5%	1/4W
R166	1-247-871-11	CARBON	47K	5%	1/4W
R185	1-249-427-11	CARBON	6.8K	5%	1/4W
R186	1-247-843-11	CARBON	3.3K	5%	1/4W

****

Ref. No.	Part No.	Description			Remark
*	1-668-651-11	DECK BOARD (AEP,UK,US)			
*	1-669-046-11	DECK BOARD (SP,MY,HK,JE)			
		**********			
		< CAPACITOR >			
C1A	1-126-963-11	ELECT	4.7uF	20%	50V
C1B	1-164-159-11	CERAMIC	0.1uF		50V
C1C	1-164-159-11	CERAMIC	0.1uF		50V
		< CONNECTOR >			
* CN07_	1-568-835-11	SOCKET, CONNECTOR 16P			
CN14	1-580-123-11	SOCKET, CONNECTOR 16P			
		< DIODE >			
D1A	8-719-911-19	DIODE 1SS119			
D1B	8-719-911-19	DIODE 1SS119			
D1C	8-719-921-80	DIODE MTZJ-11B			
D1D	8-719-911-19	DIODE 1SS119			
D1E	8-719-911-19	DIODE 1SS119			
D1F	8-719-911-19	DIODE 1SS119			
D1G	8-719-911-19	DIODE 1SS119			
D1H	8-719-911-19	DIODE 1SS119			
D1J	8-719-911-19	DIODE 1SS119			
D1K	8-719-921-63	DIODE MTZJ-7.5B			
		< IC >			
IC1A	8-759-822-09	IC LB1641			
		< TRANSISTOR >			
Q1A	8-729-188-23	TRANSISTOR 2SD882-P			
Q1B	8-729-029-86	TRANSISTOR DTC124ESA			
Q1C	8-729-029-86	TRANSISTOR DTC124ESA			
Q1D	8-729-195-23	TRANSISTOR 2SA952			
Q1E	8-729-195-23	TRANSISTOR 2SA952			
Q1F	8-729-029-86	TRANSISTOR DTC124ESA			
Q1G	8-729-029-86	TRANSISTOR DTC124ESA			
Q1H	8-729-142-46	TRANSISTOR 2SC2001-LK			
Q1J	8-729-142-46	TRANSISTOR 2SC2001-LK			
Q1K	8-729-029-94	TRANSISTOR DTC143TSA			
Q1L	8-729-422-57	TRANSISTOR UN4111			
Q1M	8-729-029-86	TRANSISTOR DTC124ESA			
		< RESISTOR >			
R1A	1-247-825-11	CARBON	560	5%	1/4W

Ref. No.	Part No.	Description			Remark
R1B	1-247-879-11	CARBON	100K	5%	1/4W
R1C	1-247-871-11	CARBON	47K	5%	1/4W
R1D	1-249-417-11	CARBON	1K	5%	1/4W
R1E	1-249-417-11	CARBON	1K	5%	1/4W
R1F	1-249-417-11	CARBON	1K	5%	1/4W
R1G	1-249-417-11	CARBON	1K	5%	1/4W
R1H	1-249-417-11	CARBON	1K	5%	1/4W
R1J	1-249-417-11	CARBON	1K	5%	1/4W
R1K	1-247-847-11	CARBON	4.7K	5%	1/4W
**********					
*	A-2007-809-A	FRONT BOARD, COMPLETE			
		**********			
*	3-021-575-01	LED COVER (A)			
*	3-021-576-01	LED COVER (B)			
*	3-021-577-01	LED COVER (C)			
	3-022-176-01	BRACKET (FLEXIBLE D)			
		< DIODE >			
D851	8-719-028-88	LED SEL3210S-D-LC05 (CD SYNC)			
D852	8-719-028-88	LED SEL3210S-D-LC05 (● REC)			
D853	8-719-047-69	LED EL204GT (◄)			
D854	8-719-047-69	LED EL204GT (►)			
D855	8-719-028-87	LED SEL3710K-D-LC05 (▮▮)			
D856	8-719-300-79	LED SEL1213C (CASSETTE INDICATOR)			
D857	8-719-023-78	LED SEL3810DLC05 (►► (AMS))			
D858	8-719-023-78	LED SEL3810DLC05 (◄◄ (AMS))			
D859	8-719-047-69	LED EL204GT (I / ⏻)			
		< RESISTOR >			
R853	1-249-411-11	CARBON	330	5%	1/4W
R854	1-249-411-11	CARBON	330	5%	1/4W
R855	1-249-407-11	CARBON	150	5%	1/4W
R856	1-249-409-11	CARBON	220	5%	1/4W
R857	1-249-409-11	CARBON	220	5%	1/4W
R858	1-249-409-11	CARBON	220	5%	1/4W
R861	1-249-416-11	CARBON	820	5%	1/4W
R862	1-249-417-11	CARBON	1K	5%	1/4W
R863	1-249-420-11	CARBON	1.8K	5%	1/4W
R864	1-247-841-11	CARBON	2.7K	5%	1/4W
R865	1-249-416-11	CARBON	820	5%	1/4W
R866	1-249-417-11	CARBON	1K	5%	1/4W
R867	1-249-420-11	CARBON	1.8K	5%	1/4W
R868	1-247-841-11	CARBON	2.7K	5%	1/4W
R869	1-247-847-11	CARBON	4.7K	5%	1/4W
R870	1-249-411-11	CARBON	330	5%	1/4W
R871	1-249-411-11	CARBON	330	5%	1/4W
R872	1-249-409-11	CARBON	220	5%	1/4W
		< SWITCH >			
S851	1-571-760-11	SWITCH, KEY BOARD (I / ⏻)			
S852	1-571-760-11	SWITCH, KEY BOARD (◄)			
S853	1-571-760-11	SWITCH, KEY BOARD (►)			
S854	1-571-760-11	SWITCH, KEY BOARD (■)			

Ref. No.	Part No.	Description	Remark
S855	1-571-760-11	SWITCH, KEY BOARD (▮▮)	
S856	1-771-304-11	SWITCH, SLIDE (DIRECTION)	
S857	1-571-760-11	SWITCH, KEY BOARD (◄◄ (AMS))	
S858	1-571-760-11	SWITCH, KEY BOARD (►► (AMS))	
S859	1-571-760-11	SWITCH, KEY BOARD (● REC)	
S860	1-571-760-11	SWITCH, KEY BOARD (CD SYNC)	
S861	1-571-760-11	SWITCH, KEY BOARD (⏏)	
S862	1-771-304-11	SWITCH, SLIDE (DOLBY NR)	
**********			
*	1-668-650-11	LOW-VOLTAGE BOARD (AEP,UK,US)	
*	1-669-044-11	LOW-VOLTAGE BOARD (SP,MY,HK,JE)	
		**********	
		< CAPACITOR >	
C62	1-126-941-11	ELECT 470uF 20%	16V
C62A	1-124-907-11	ELECT 10uF 20%	50V
C64	1-126-941-11	ELECT 470uF 20%	16V
C64A	1-124-907-11	ELECT 10uF 20%	50V
C66	1-126-916-11	ELECT 1000uF 20%	6.3V
C66A	1-124-907-11	ELECT 10uF 20%	50V
C66B	1-162-851-11	CERAMIC 0.1uF 10%	16V
C66E	1-162-851-11	CERAMIC 0.1uF 10%	16V
C67	1-126-942-61	ELECT 1000uF 20%	25V
C69A	1-104-664-11	ELECT 47uF 20%	25V
C70	1-164-159-11	CERAMIC 0.1uF	50V
		< CONNECTOR >	
CN10	1-784-406-11	CONNENTOR, BOARD TO BOARD 8P	
		< DIODE >	
D15	8-719-911-19	DIODE 1SS119	
		< IC >	
IC06	8-759-708-05	IC NJM78L05A	
IC07	8-759-990-36	IC RC7908FA	
IC08	8-759-982-07	IC RC7808FA	
		< RESISTOR >	
R123	1-247-879-11	CARBON 100K 5%	1/4W
R124	1-247-855-11	CARBON 10K 5%	1/4W
R125	1-249-417-11	CARBON 1K 5%	1/4W
R126	1-260-076-11	CARBON 10 5%	1/2W
**********			
*	A-2007-767-A	MAIN BOARD, COMPLETE (SP,MY,HK,JE)	
*	A-2056-691-A	MAIN BOARD, COMPLETE (AEP,UK,US)	
		**********	
	3-020-433-01	BRACKET (3P WIRE) (AU BUS)	
		< CAPACITOR >	
C01	1-162-292-31	CERAMIC 680PF 10%	50V

MAIN

Ref. No.	Part No.	Description			Remark
C02	1-162-292-31	CERAMIC	680PF	10%	50V
C03	1-136-157-00	FILM	0.022uF	5%	50V
C04	1-136-157-00	FILM	0.022uF	5%	50V
C05	1-126-941-11	ELECT	470uF	20%	16V
C06	1-126-941-11	ELECT	470uF	20%	16V
C07	1-136-157-00	FILM	0.022uF	5%	50V
C08	1-136-157-00	FILM	0.022uF	5%	50V
C11A	1-161-772-11	CERAMIC	0.1uF	10%	25V
C27	1-126-963-11	ELECT	4.7uF	20%	50V
C28	1-126-963-11	ELECT	4.7uF	20%	50V
C29	1-162-290-31	CERAMIC	470PF	10%	50V
C30	1-162-290-31	CERAMIC	470PF	10%	50V
C31	1-104-664-11	ELECT	47uF	20%	16V
C32	1-104-664-11	ELECT	47uF	20%	16V
C32A	1-126-956-11	ELECT	0.1uF	20%	50V
C51	1-126-963-11	ELECT	4.7uF	20%	50V
C51A	1-124-903-11	ELECT	1uF	20%	50V
C52	1-126-963-11	ELECT	4.7uF	20%	50V
C52A	1-124-903-11	ELECT	1uF	20%	50V
C53	1-136-165-00	FILM	0.1uF	5%	50V
C54	1-136-165-00	FILM	0.1uF	5%	50V
C57	1-124-907-11	ELECT	10uF	20%	50V
C58	1-124-907-11	ELECT	10uF	20%	50V
C59	1-124-907-11	ELECT	10uF	20%	50V
C60	1-124-907-11	ELECT	10uF	20%	50V
C61	1-164-159-11	CERAMIC	0.1uF		50V
C90	1-164-159-11	CERAMIC	0.1uF		50V
C90A	1-104-663-11	ELECT	33uF	20%	16V
C91	1-164-057-11	CERAMIC	30PF	5%	50V
C92	1-164-057-11	CERAMIC	30PF	5%	50V
C95	1-162-294-31	CERAMIC	0.001uF	10%	50V
C96	1-104-664-11	ELECT	47uF	20%	16V
C97	1-104-664-11	ELECT	47uF	20%	16V
C98	1-104-664-11	ELECT	47uF	20%	16V
		< CONNECTOR >			
CN04	1-574-314-11	CORD (WITH CONNECTOR) (AU BUS)			
CN06	1-784-408-11	SOCKET, CONNECTOR 14P			
* CN07	1-568-835-11	SOCKET, CONNECTOR 16P			
CN10_	1-784-407-11	CONNECTOR, BOARD TO BOARD 8P			
		< DIODE >			
D01	8-719-911-19	DIODE 1SS119			
D12	8-719-921-54	DIODE MTZJ-6.2B			
D13	8-719-921-54	DIODE MTZJ-6.2B			
D14	8-719-911-19	DIODE 1SS119			
D32	8-719-109-89	DIODE RD5.6ESB2			
D34	8-719-055-76	DIODE 1N4148			
D35	8-719-109-72	DIODE RD3.9ES-B2			
		< IC >			
IC01	8-759-112-93	IC uPC4570HA-1			
IC02	8-752-056-08	IC CXA1551P			

Ref. No.	Part No.	Description			Remark
IC04	8-759-497-87	IC uPD75108GF-N14-3BE			
IC05	8-759-165-85	IC PST600H-T			
IC11	8-759-708-05	IC NJM78L05A			
		< JACK >			
JK1	1-770-614-21	JACK, PIN 4P (TAPE)			
		< FILTER >			
L81	1-234-023-11	FILTER, MPX			
L82	1-234-023-11	FILTER, MPX			
		< TRANSISTOR >			
Q05	8-729-194-57	TRANSISTOR 2SC945-P			
Q12	8-729-029-86	TRANSISTOR DTC124ESA			
Q13	8-729-029-86	TRANSISTOR DTC124ESA			
Q15	8-729-900-63	TRANSISTOR DTA124ES			
Q51	8-729-029-68	TRANSISTOR DTC114TSA			
Q52	8-729-029-68	TRANSISTOR DTC114TSA			
Q57	8-729-119-78	TRANSISTOR 2SC2785-HFE			
Q59	8-729-900-65	TRANSISTOR DTA144ES			
Q74	8-729-900-65	TRANSISTOR DTA144ES			
Q76	8-729-119-76	TRANSISTOR 2SA1175-HFE			
Q81	8-729-029-68	TRANSISTOR DTC114TSA			
Q82	8-729-029-68	TRANSISTOR DTC114TSA			
		< RESISTOR >			
R01	1-249-442-11	CARBON	510	5%	1/4W
R05	1-247-881-00	CARBON	120K	5%	1/4W
R06	1-247-881-00	CARBON	120K	5%	1/4W
R07	1-249-404-00	CARBON	82	5%	1/4W
R08	1-249-404-00	CARBON	82	5%	1/4W
R09	1-247-849-11	CARBON	5.6K	5%	1/4W
R10	1-247-849-11	CARBON	5.6K	5%	1/4W
R11	1-247-881-00	CARBON	120K	5%	1/4W
R12	1-247-881-00	CARBON	120K	5%	1/4W
R13	1-249-393-11	CARBON	10	5%	1/4W
R14	1-260-076-11	CARBON	10	5%	1/2W
R15	1-247-855-11	CARBON	10K	5%	1/4W
R16	1-247-855-11	CARBON	10K	5%	1/4W
R17	1-247-839-11	CARBON	2.2K	5%	1/4W
R17A	1-247-847-11	CARBON	4.7K	5%	1/4W
R18	1-247-839-11	CARBON	2.2K	5%	1/4W
R19	1-249-424-11	CARBON	3.9K	5%	1/4W
R20	1-249-424-11	CARBON	3.9K	5%	1/4W
R21	1-247-847-11	CARBON	4.7K	5%	1/4W
R26	1-247-807-11	CARBON	100	5%	1/4W
R101	1-247-871-11	CARBON	47K	5%	1/4W
R102	1-247-871-11	CARBON	47K	5%	1/4W
R103	1-247-839-11	CARBON	2.2K	5%	1/4W
R104	1-247-839-11	CARBON	2.2K	5%	1/4W
R105	1-247-847-11	CARBON	4.7K	5%	1/4W
R106	1-247-847-11	CARBON	4.7K	5%	1/4W

Ref. No.	Part No.	Description			Remark
R111	1-249-431-11	CARBON	15K	5%	1/4W
R112	1-249-431-11	CARBON	15K	5%	1/4W
R113	1-247-855-11	CARBON	10K	5%	1/4W
R114	1-247-855-11	CARBON	10K	5%	1/4W
R115	1-247-870-11	CARBON	43K	5%	1/4W
R116	1-247-855-11	CARBON	10K	5%	1/4W
R117	1-260-111-11	CARBON	10K	5%	1/2W
R118	1-249-393-11	CARBON	10	5%	1/4W
R119	1-249-417-11	CARBON	1K	5%	1/4W
R120	1-249-417-11	CARBON	1K	5%	1/4W
R121	1-247-855-11	CARBON	10K	5%	1/4W
R122	1-260-099-11	CARBON	1K	5%	1/2W
R160	1-247-871-11	CARBON	47K	5%	1/4W
R161	1-247-807-11	CARBON	100	5%	1/4W
R163	1-247-871-11	CARBON	47K	5%	1/4W
R169	1-247-847-11	CARBON	4.7K	5%	1/4W
R169A	1-247-847-11	CARBON	4.7K	5%	1/4W
R170	1-247-847-11	CARBON	4.7K	5%	1/4W
R171	1-260-119-11	CARBON	47K	5%	1/2W
R173	1-249-393-11	CARBON	10	5%	1/4W
R174	1-249-393-11	CARBON	10	5%	1/4W
R183	1-247-855-11	CARBON	10K	5%	1/4W
R184	1-247-855-11	CARBON	10K	5%	1/4W
R187	1-260-119-11	CARBON	47K	5%	1/2W
R188	1-260-107-11	CARBON	4.7K	5%	1/2W
R189	1-260-119-11	CARBON	47K	5%	1/2W
R190	1-247-871-11	CARBON	47K	5%	1/4W
R191	1-247-871-11	CARBON	47K	5%	1/4W
R192	1-249-413-11	CARBON	470	5%	1/4W
R193	1-249-413-11	CARBON	470	5%	1/4W
RA	1-249-381-11	CARBON	1	5%	1/4W
RF	1-247-903-00	CARBON	1M	5%	1/4W
		< RELAY >			
RY01	1-755-244-11	RELAY			
RY02	1-755-244-11	RELAY			
RY03	1-755-244-11	RELAY			
		< VARIABLE RESISTOR >			
SFR03	1-238-598-11	RES, ADJ, CARBON 2.2K			
SFR04	1-238-598-11	RES, ADJ, CARBON 2.2K			
		< VIBRATOR >			
X01	1-767-130-11	VIBRATOR, CERAMIC (4.19MHz)			
**********					
*	1-668-649-11	POWER BOARD (AEP,UK,US)			
*	1-669-047-11	POWER BOARD (SP,MY,HK,JE)			
		**********			
		< CAPACITOR >			
C63	1-126-943-11	ELECT	2200uF	20%	25V
C63A	1-162-851-11	CERAMIC	0.1uF	10%	16V

Ref. No.	Part No.	Description			Remark
C65	1-126-943-11	ELECT	2200uF	20%	25V
C65A	1-162-851-11	CERAMIC	0.1uF	10%	16V
C301	1-102-129-00	CERAMIC	0.01uF	10%	50V
C302	1-102-129-00	CERAMIC	0.01uF	10%	50V
		< DIODE >			
D20	8-719-200-02	DIODE 10E2			
D21	8-719-200-02	DIODE 10E2			
D22	8-719-200-02	DIODE 10E2			
D23	8-719-200-02	DIODE 10E2			
D24	8-719-911-19	DIODE 1SS119			
D25	8-719-911-19	DIODE 1SS119			
		< RESISTOR >			
⚠FR01	1-217-469-00	FUSIBLE	1	5%	1W F
⚠FR02	1-217-469-00	FUSIBLE	1	5%	1W F
**********					
*	A-2007-768-A	REC BOARD, COMPLETE (SP,MY,HK,JE)			
*	A-2056-692-A	REC BOARD, COMPLETE (AEP,UK,US)			
		**********			
		< CAPACITOR >			
C09	1-101-888-00	CERAMIC	68PF	5%	50V
C10	1-101-888-00	CERAMIC	68PF	5%	50V
C13	1-124-907-11	ELECT	10uF	20%	50V
C14	1-124-907-11	ELECT	10uF	20%	50V
C15	1-164-077-11	CERAMIC	220PF	10%	50V
C16	1-164-077-11	CERAMIC	220PF	10%	50V
⚠C18	1-104-990-11	FILM	0.0033uF	5%	200V
⚠C19	1-137-464-11	FILM	0.039uF	5%	100V
C20	1-126-941-11	ELECT	470uF	20%	16V
⚠C21	1-136-291-11	FILM	0.0068uF	5%	100V
⚠C22	1-136-298-00	FILM	0.0033uF	5%	100V
⚠C23	1-136-298-00	FILM	0.0033uF	5%	100V
C24	1-104-664-11	ELECT	47uF	20%	16V
C71	1-124-903-11	ELECT	1uF	20%	50V
C72	1-124-903-11	ELECT	1uF	20%	50V
C73	1-126-233-11	ELECT	22uF	20%	50V
C74	1-126-233-11	ELECT	22uF	20%	50V
C75	1-136-155-00	FILM	0.015uF	5%	50V
C76	1-136-155-00	FILM	0.015uF	5%	50V
C77	1-136-154-00	FILM	0.012uF	5%	50V
C78	1-136-154-00	FILM	0.012uF	5%	50V
C81	1-136-166-00	FILM	0.12uF	5%	50V
C82	1-136-166-00	FILM	0.12uF	5%	50V
C83	1-124-903-11	ELECT	1uF	20%	50V
C83A	1-104-666-11	ELECT	220uF	20%	16V
C93	1-130-477-00	MYLAR	0.0033uF	5%	50V
C94	1-130-477-00	MYLAR	0.0033uF	5%	50V
		< DIODE >			
D03	8-719-010-62	DIODE UZ-9.1BSB			

The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety. Replace only with part number specified.

REC SLIDE SW TRANSFORMER

Ref. No.	Part No.	Description				Remark
D04	8-719-921-63	DIODE MTZJ-7.5B				
D26	8-719-911-19	DIODE 1SS119				
D27	8-719-911-19	DIODE 1SS119				
		< IC >				
IC09	8-759-112-93	IC uPC4570HA-1				
		< COIL >				
L03	1-416-568-11	COIL, CHOKE	39mH			
L04	1-416-568-11	COIL, CHOKE	39mH			
L05	1-431-706-11	TRANSFORMER, BIAS OSCILLATION				
L07	1-416-567-11	COIL, CHOKE	6.8mH			
L08	1-416-567-11	COIL, CHOKE	6.8mH			
		< TRANSISTOR >				
Q06	8-729-142-46	TRANSISTOR 2SC2001-LK				
Q07	8-729-142-46	TRANSISTOR 2SC2001-LK				
Q08	8-729-140-96	TRANSISTOR 2SD774-34				
Q09	8-729-194-57	TRANSISTOR 2SC945-P				
Q11	8-729-194-57	TRANSISTOR 2SC945-P				
Q65	8-729-029-86	TRANSISTOR DTC124ESA				
Q66	8-729-029-86	TRANSISTOR DTC124ESA				
Q67	8-729-029-86	TRANSISTOR DTC124ESA				
Q68	8-729-029-86	TRANSISTOR DTC124ESA				
Q69	8-729-029-68	TRANSISTOR DTC114TSA				
Q70	8-729-029-68	TRANSISTOR DTC114TSA				
		< RESISTOR >				
R23	1-249-387-11	CARBON	3.3	5%	1/4W	
R24	1-249-434-11	CARBON	27K	5%	1/4W	
R25	1-249-434-11	CARBON	27K	5%	1/4W	
R27	1-247-847-11	CARBON	4.7K	5%	1/4W	
R28	1-247-847-11	CARBON	4.7K	5%	1/4W	
⚠R30	1-216-455-11	METAL OXIDE	560	5%	2W	F
R32	1-249-417-11	CARBON	1K	5%	1/4W	
R37	1-249-412-11	CARBON	390	5%	1/4W	
R127	1-249-430-11	CARBON	12K	5%	1/4W	
R128	1-249-430-11	CARBON	12K	5%	1/4W	
R133	1-247-871-11	CARBON	47K	5%	1/4W	
R134	1-247-871-11	CARBON	47K	5%	1/4W	
R135	1-247-871-11	CARBON	47K	5%	1/4W	
R136	1-247-871-11	CARBON	47K	5%	1/4W	
R137	1-247-883-00	CARBON	150K	5%	1/4W	
R138	1-247-883-00	CARBON	150K	5%	1/4W	
R139	1-247-863-11	CARBON	22K	5%	1/4W	
R140	1-247-863-11	CARBON	22K	5%	1/4W	
R141	1-247-867-11	CARBON	33K	5%	1/4W	
R142	1-247-867-11	CARBON	33K	5%	1/4W	
R143	1-247-855-11	CARBON	10K	5%	1/4W	
R144	1-247-855-11	CARBON	10K	5%	1/4W	
R145	1-247-807-11	CARBON	100	5%	1/4W	
R146	1-247-807-11	CARBON	100	5%	1/4W	
R147	1-249-427-11	CARBON	6.8K	5%	1/4W	
R148	1-249-427-11	CARBON	6.8K	5%	1/4W	
R151	1-249-417-11	CARBON	1K	5%	1/4W	
R152	1-247-879-11	CARBON	100K	5%	1/4W	
		< VARIABLE RESISTOR >				
SFR01	1-238-603-11	RES, ADJ, CARBON	100K			
SFR02	1-238-603-11	RES, ADJ, CARBON	100K			
SFR11	1-238-601-11	RES, ADJ, CARBON	22K			
SFR12	1-238-601-11	RES, ADJ, CARBON	22K			
**********						
*	1-669-048-11	SLIDE SW BOARD (SP,MY,HK,JE)				
		**********				
		< SWITCH >				
⚠SW01	3-021-926-01	BRACKET (SLIDE SW) (VOLTAGE SELECTOR)				
**********						
*	1-668-652-11	TRANSFORMER BOARD (AEP,UK,US)				
*	1-669-043-11	TRANSFORMER BOARD (SP,MY,HK,JE)				
		**********				
		< COIL >				
⚠L11	1-416-566-11	COIL, CHOKE	15uH			
⚠L12	1-416-566-11	COIL, CHOKE	15uH			
		< TRANSFORMER >				
⚠PT301	3-021-913-01	BRACKET (POWER TRANS) (AEP,UK)				
⚠PT301	3-021-925-01	BRACKET (POWER TRANS) (SP,MY,HK,JE)				
⚠PT301	3-021-976-01	BRACKET (POWER TRANS) (US)				
**********						
		MISCELLANEOUS				
		**********				
⚠108	3-021-914-01	BRACKET (AC CORD) (EXCEPT UK,US)				
⚠108	3-021-917-01	BRACKET (AC CORD) (UK)				
⚠108	3-021-977-01	BRACKET (AC CORD) (US)				
114	3-021-552-01	BRACKET (FLEXIBLE A)				
123	3-020-962-01	BRACKET (FLEXIBLE B)				
HRPE101	3-020-446-01	BRACKET (HEAD UNIT)				
M1	3-020-447-01	MOTOR (A) ASSY (REEL/CAPSTAN)				
M2	3-020-448-01	MOTOR (B) ASSY (LOADING)				
⚠PT301	3-021-913-01	BRACKET (POWER TRANS) (AEP,UK)				
⚠PT301	3-021-925-01	BRACKET (POWER TRANS) (SP,MY,HK,JE)				
⚠PT301	3-021-976-01	BRACKET (POWER TRANS) (US)				
**********						

The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety. Replace only with part number specified.

Ref. No.	Part No.	Description	Remark
		ACCESSORIES & PACKING MATERIALS	
		**********	
	3-020-441-01	BRACKET (PATCH CORD)	
⚠	1-569-008-11	ADAPTOR, CONVERSION 2P (SP,MY,JE)	
⚠	1-770-019-11	ADAPTOR, CONVERSION PLUG 3P (HK)	
	3-864-650-11	MANUAL, INSTRUCTION (ENGLISH)	
	3-864-650-21	MANUAL, INSTRUCTION (FRENCH) (US,AEP, SP,JE)	
	3-864-650-31	MANUAL, INSTRUCTION (GERMAN,SPANISH, DUTCH,SWEDISH,ITALIAN) (AEP,SP)	
	3-864-650-41	MANUAL, INSTRUCTION (PORTUGUESE) (AEP,JE)	
	3-864-650-51	MANUAL, INSTRUCTION (CHINESE,KOREAN) (SP,HK,JE)	

The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety. Replace only with part number specified.

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